

Service Manual

PIONEER®
The Art of Entertainment

DEH-P645/UC



ORDER NO.
CRT2147

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH ID-LOGIC TUNER

DEH-P645 UC

DEH-P56 UC

DEH-P545 UC

DEH-46 UC

DEH-445 UC

DEH-41 UC

COMPACT
disc
DIGITAL AUDIO

- See the separate manual CX-597(CRT1829) for the CD mechanism description, disassembly and circuit description.
- The CD mechanism employed in this model is one of S7 series.

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● **CD Player Service Precautions**

1. For pickup unit(CXX1230) handling, please refer to "Disassembly"(CX-597 Service Manual CRT1829).
During replacement, handling precautions shall be taken to prevent an electrostatic discharge(protection by a short pin).
2. During disassembly, be sure to turn the power off since an internal IC might be destroyed when a connector is plugged or unplugged.
3. Please checking the grating after changing the service pickup unit(see page 79).

1. SAFETY INFORMATION

CAUTION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely; you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health and Safety Code, Section 25249.5). When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

2. EXPLODED VIEWS AND PARTS LIST

2.1 PACKING

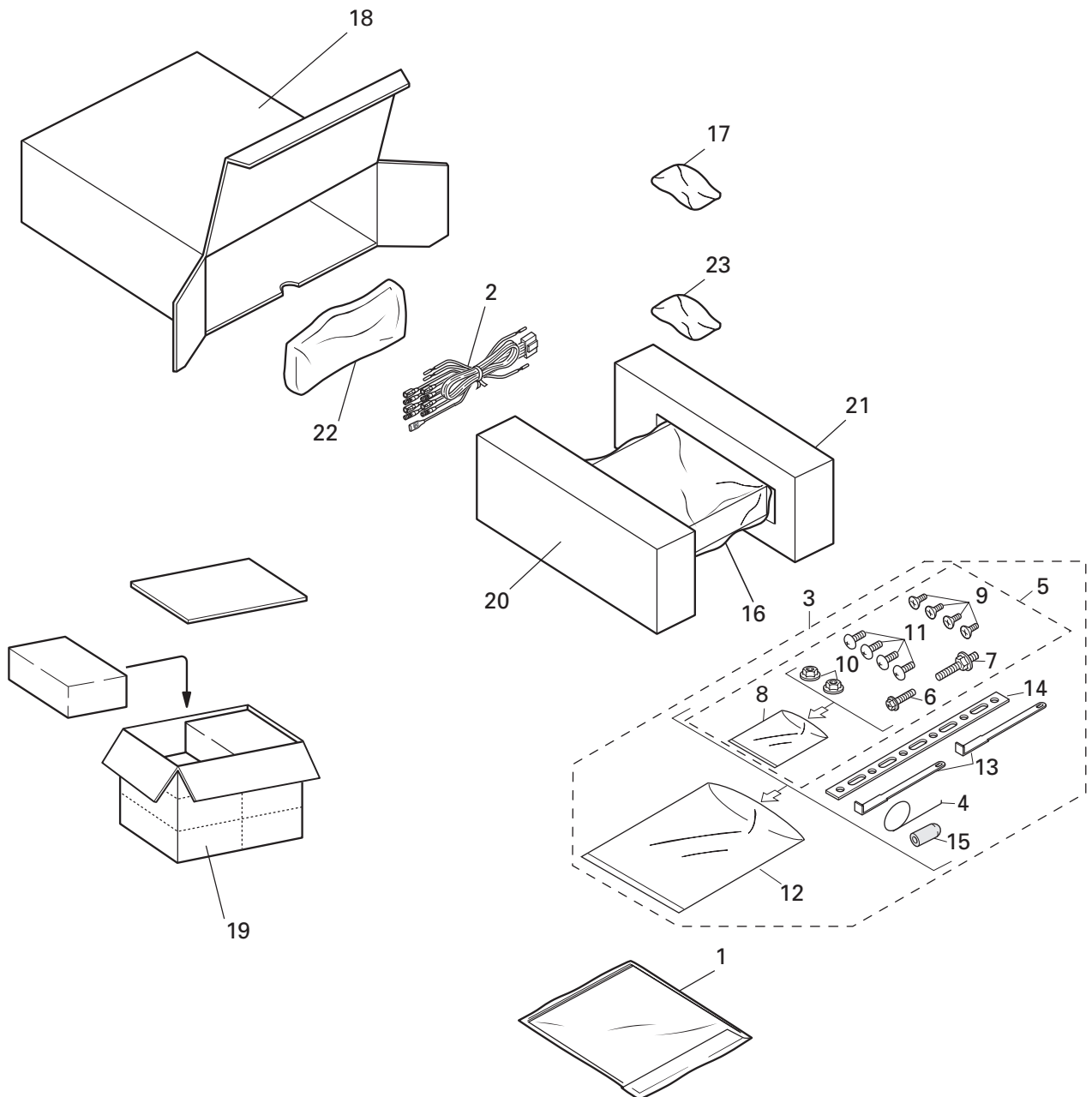


Fig. 1

NOTE:

- Parts marked by "*" are generally unavailable because they are not in our Master Spare Parts List.
- Screws adjacent to ∇ mark on the product are used for disassembly.

● PACKING SECTION PARTS LIST

(1) PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
*	1-1	Card	See Contrast table(2)		11	Screw	TRZ50P080FMC
	1-2	Polyethylene Bag	CEG1116	*	12	Polyethylene Bag	CEG-158
	1-3	Owner's Manual	See Contrast table(2)		13	Handle	CNC5395
	1-4	Installation Manual	See Contrast table(2)		14	Strap	CNF-111
*	1-5	Warranty Card	See Contrast table(2)		15	Bush	CNV1009
	1-6	Caution Card	See Contrast table(2)		16	Polyethylene Bag	CEG1173
	2	Cord Assy	See Contrast table(2)		17	Battery	See Contrast table(2)
	3	Accessory Assy	CEA1918		18	Carton	See Contrast table(2)
	4	Spring	CBH-865		19	Contain Box	See Contrast table(2)
	5	Screw Assy	CEA1924		20	Protector	CHP1766
	6	Screw	CBA-102		21	Protector	CHP1767
	7	Screw	CBA1284		22	Case Assy	CXB1063
*	8	Polyethylene Bag	CNM4338		23	Remote Control Unit	See Contrast table(2)
	9	Screw	CRZ50P090FMC				
	10	Nut	NF50FMC				

● Owner's Manual

Model	Part No.	Language
DEH-P645/UC	CRD2555	English, French
DEH-P56/UC	CRD2564	English, French
DEH-P545/UC	CRD2566	English, French, Spanish
DEH-46/UC	CRD2572	English, French, Spanish
DEH-445/UC	CRD2574	English, French, Spanish
DEH-41/UC	CRD2576	English, French, Spanish

● Installation Manual

Model	Part No.	Language
DEH-P645/UC	CRD2556	English, French
DEH-P56/UC	CRD2565	English, French
DEH-P545/UC	CRD2567	English, French, Spanish
DEH-46/UC	CRD2573	English, French, Spanish
DEH-445/UC	CRD2575	English, French, Spanish
DEH-41/UC	CRD2577	English, French, Spanish

(2) CONTRAST TABLE

DEH-P645/UC, DEH-P56/UC, DEH-P545/UC, DEH-46/UC, DEH-445/UC and DEH-41/UC are constructed same except for the following:

Mark No.	Symbol and Description	Part No.	
		DEH-P645/UC	DEH-P56/UC
*	1-1 Card	ARY1048	Not used
	1-3 Owner's Manual	CRD2555	CRD2564
	1-4 Installation Manual	CRD2556	CRD2565
*	1-5 Warranty Card	Not used	CRY1070
	1-6 Caution Card	CRP1182	Not used
	17 Battery	CEX1030	Not used
	18 Carton	CHG3435	CHG3439
	19 Contain Box	CHL3435	CHL3439
	23 Remote Control Unit	CXB1225	Not used

Mark No.	Symbol and Description	Part No.	
		DEH-P645/UC	DEH-P545/UC
	1-3 Owner's Manual	CRD2555	CRD2566
	1-4 Installation Manual	CRD2556	CRD2567
	1-6 Caution Card	CRP1182	Not used
	17 Battery	CEX1030	Not used
	18 Carton	CHG3435	CHG3438
	19 Contain Box	CHL3435	CHL3438
	23 Remote Control Unit	CXB1225	Not used

Mark No.	Symbol and Description	Part No.	
		DEH-P645/UC	DEH-46/UC
*	1-1 Card	ARY1048	Not used
	1-3 Owner's Manual	CRD2555	CRD2572
	1-4 Installation Manual	CRD2556	CRD2573
*	1-5 Warranty Card	Not used	CRY1070
	1-6 Caution Card	CRP1182	Not used
	17 Battery	CEX1030	Not used
	18 Carton	CHG3435	CHG3443
	19 Contain Box	CHL3435	CHL3443
	23 Remote Control Unit	CXB1225	Not used

Mark No.	Symbol and Description	Part No.	
		DEH-P645/UC	DEH-445/UC
	1-3 Owner's Manual	CRD2555	CRD2574
	1-4 Installation Manual	CRD2556	CRD2575
	17 Battery	CEX1030	Not used
	18 Carton	CHG3435	CHG3444
	19 Contain Box	CHL3435	CHL3444
	23 Remote Control Unit	CXB1225	Not used

Mark No.	Symbol and Description	Part No.	
		DEH-P645/UC	DEH-41/UC
	1-3 Owner's Manual	CRD2555	CRD2576
	1-4 Installation Manual	CRD2556	CRD2577
	1-6 Caution Card	CRP1182	Not used
	2 Cord Assy	CDE5483	CDE5484
	17 Battery	CEX1030	Not used
	18 Carton	CHG3435	CHG3445
	19 Contain Box	CHL3435	CHL3445
	23 Remote Control Unit	CXB1225	Not used

2.2 EXTERIOR

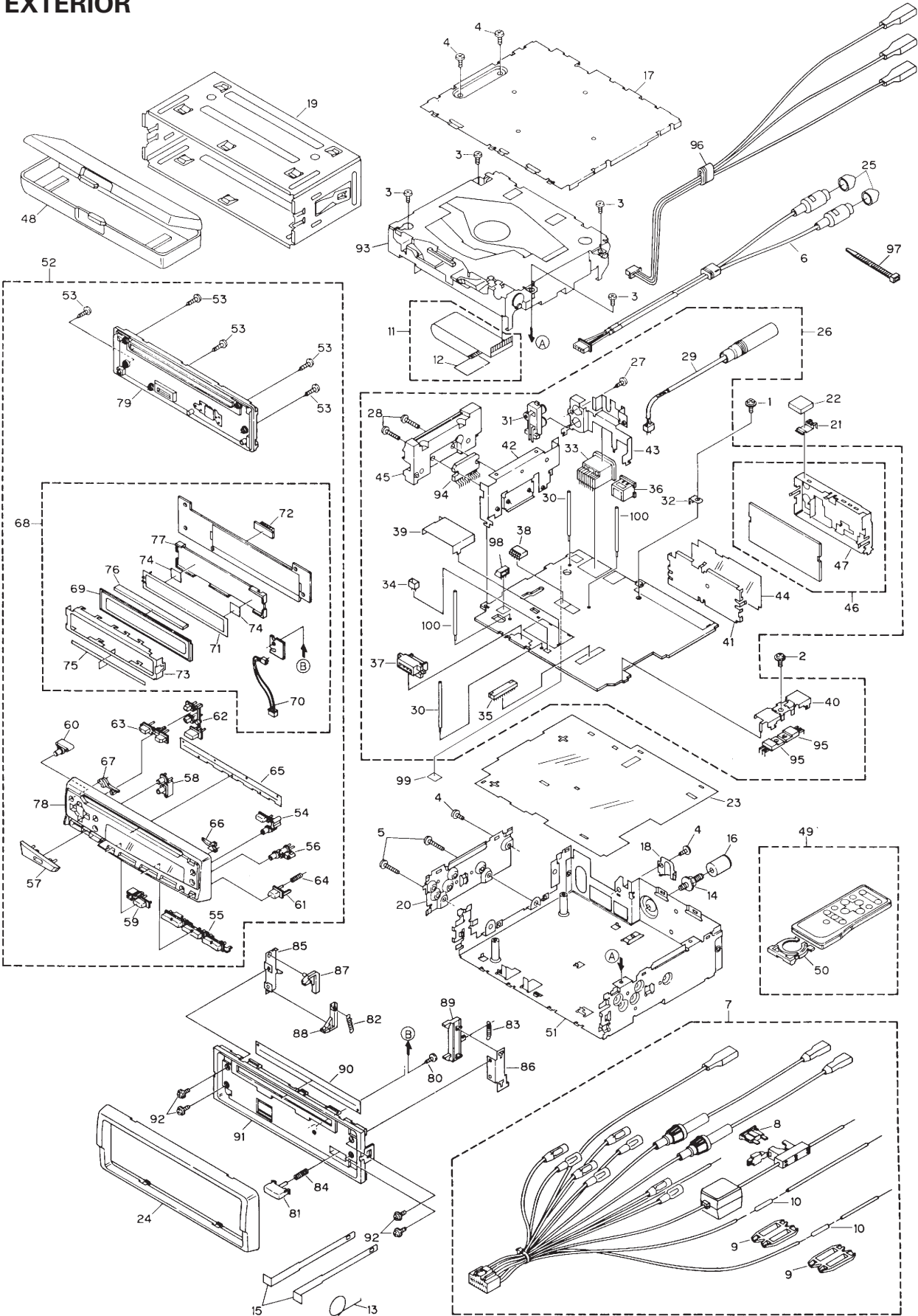


Fig. 2

● EXTERIOR SECTION PARTS LIST

(1) PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	ASZ26P055FUC	46	FM/AM Tuner Unit	CWE1417
2	Screw	ASZ26P080FMC	47	Holder	CNC6555
3	Screw	BSZ26P050FMC	48	Case Assy	CXB1063
4	Screw	BSZ30P060FMC	49	Remote Control Unit	See Contrast table(2)
5	Screw	BSZ30P180FMC	50	Cover	See Contrast table(2)
6	Cord Assy	See Contrast table(2)	51	Chassis Unit	See Contrast table(2)
7	Cord Assy	See Contrast table(2)	52	Detach Grille Assy	See Contrast table(2)
8	Fuse	CEK1136	53	Screw	BPZ20P100FZK
9	Cap	CNS1472	54	Button	CAC5397
10	Resistor	RS1/2PMF102J	55	Button	CAC5398
11	Cable	CDE5635	56	Button	CAC5399
12	Insulator	CNM5761	57	Button	CAC5402
13	Spring	CBH-865	58	Button	CAC5403
14	Screw	CBA1284	59	Button	CAC5404
15	Handle	CNC5395	60	Button	CAC5405
16	Bush	CNV1009	61	Button	CAC5430
17	Case	CNB2119	62	Button	CAC5450
18	Holder	CNC4963	63	Button	CAC5451
19	Holder	CNC6798	64	Spring	CBH2103
20	Holder	CNC6862	65	Cover	CNM4704
21	Earth Terminal	CNC7358	66	Lighting Conductor	CNV5180
22	Spacer	CNM4913	67	Lighting Conductor	CNV5181
23	Insulator	CNM5535	68	Keyboard Unit	See Contrast table(2)
24	Panel	CNS4200	69	LCD	See Contrast table(2)
25	Cap	See Contrast table(2)	70	Cord	CDE5665
26	Tuner Amp Unit	See Contrast table(2)	71	EL	CEL1536
27	Screw	BPZ26P080FMC	72	Connector(CN1801)	CKS3580
28	Screw	BSZ26P140FMC	73	Holder	CNC7435
29	Antenna Cord	CDH1234	74	Film	CNM4349
30	Clamper	CEF1009	75	Spacer	CNM5449
31	Pin Jack(CN253)	CKB1028	76	Connector	CNV5182
32	Terminal(CN501)	CKF1059	77	Housing	CNV5183
33	Plug(CN901)	CKM1278	78	Grille Unit	See Contrast table(2)
34	Plug(CN802)	CKS-783	79	Cover Unit	CXB2480
35	Connector(CN651)	CKS2228	80	Screw	BPZ20P060FMC
36	Connector(CN101)	See Contrast table(2)	81	Button	CAC5180
37	Connector(CN801)	CKS3581	82	Spring	CBH1834
38	Connector(CN255)	See Contrast table(2)	83	Spring	CBH1835
39	Holder	CNC5968	84	Spring	CBH1996
40	Holder	CNC6132	85	Bracket	CNC6135
41	Holder	CNC6356	86	Bracket	CNC6791
42	Holder	CNC7429	87	Arm	CNV4692
43	Holder	See Contrast table(2)	88	Arm	CNV4693
44	Insulator	CNM4684	89	Arm	CNV4951
45	Heat Sink	CNR1458	90	Cover	CNM4875

DEH-P645,P56,P545,46,445,41

Mark No.	Description	Part No.
91	Panel	See Contrast table(2)
92	Screw	IMS20P030FZK
93	CD Mechanism Module	CXK5004
94	IC(IC201)	See Contrast table(2)
95	Transistor(Q951, 971)	2SD2396
96	Cord Assy	See Contrast table(2)
97	Lock Tie	See Contrast table(2)
98	Connector(CN851)	See Contrast table(2)
99	Spacer	CNM5875
100	Clamper	See Contrast table(2)

(2) CONTRAST TABLE

DEH-P645/UC, DEH-P56/UC, DEH-P545/UC, DEH-46/UC, DEH-445/UC and DEH-41/UC are constructed same except for the following:

Mark No.	Symbol and Description	Part No.	
		DEH-P645/UC	DEH-P56/UC
6	Cord Assy	CDE5208	CDE5210
25	Cap	CNV2680(×2)	CNV2680(×4)
26	Tuner Amp Unit	CWM5620	CWM5625
38	Connector	CKS3598(CN255)	CKS3602(CN251)
43	Holder	CNC7432	CNC7431
49	Remote Control Unit	CXB1225	Not used
50	Cover	CNS4139	Not used
51	Chassis Unit	CXB1983	CXB1982
52	Detach Grille Assy	CXB1994	CXB2000
68	Keyboard Unit	CWM5634	CWM5636
69	LCD	CAW1479	CAW1459
78	Grille Unit	CXB1968	CXB1973
96	Cord Assy	Not used	CDE5184
* 97	Lock Tie	Not used	CNV-754
98	Connector(CN851)	Not used	CKS3597
100	Clamper	Not used	CEF1009

Mark No.	Symbol and Description	Part No.	
		DEH-P645/UC	DEH-P545/UC
26	Tuner Amp Unit	CWM5620	CWM5626
49	Remote Control Unit	CXB1225	Not used
50	Cover	CNS4139	Not used
52	Detach Grille Assy	CXB1994	CXB2001
68	Keyboard Unit	CWM5634	CWM5636
69	LCD	CAW1479	CAW1459
78	Grille Unit	CXB1968	CXB1974

Mark No.	Symbol and Description	Part No.	
		DEH-P645/UC	DEH-46/UC
6	Cord Assy	CDE5208	CDE5210
25	Cap	CNV2680(×2)	CNV2680(×4)
26	Tuner Amp Unit	CWM5620	CWM5627
36	Connector(CN101)	CKS3408	Not used
38	Connector	CKS3598(CN255)	CKS3602(CN251)
43	Holder	CNC7432	CNC7431
49	Remote Control Unit	CXB1225	Not used
50	Cover	CNS4139	Not used
51	Chassis Unit	CXB1983	CXB1988
52	Detach Grille Assy	CXB1994	CXB2003
68	Keyboard Unit	CWM5634	CWM5640
78	Grille Unit	CXB1968	CXB1976
91	Panel	CNS4451	CNS4450
94	IC(IC201)	TDA7386	TDA7384
96	Cord Assy	Not used	CDE5184
* 97	Lock Tie	Not used	CNV-754
98	Connector(CN851)	Not used	CKS3597
100	Clamper	Not used	CEF1009

Mark No.	Symbol and Description	Part No.	
		DEH-P645/UC	DEH-445/UC
26	Tuner Amp Unit	CWM5620	CWM5628
36	Connector(CN101)	CKS3408	Not used
49	Remote Control Unit	CXB1225	Not used
50	Cover	CNS4139	Not used
51	Chassis Unit	CXB1983	CXB1989
52	Detach Grille Assy	CXB1994	CXB2004
68	Keyboard Unit	CWM5634	CWM5640
78	Grille Unit	CXB1968	CXB1977
91	Panel	CNS4451	CNS4450
94	IC(IC201)	TDA7386	TDA7384

Mark No.	Symbol and Description	Part No.	
		DEH-P645/UC	DEH-41/UC
6	Cord Assy	CDE5208	Not used
7	Cord Assy	CDE5483	CDE5484
25	Cap	CNV2680	Not used
26	Tuner Amp Unit	CWM5620	CWM5629
36	Connector(CN101)	CKS3408	Not used
38	Connector(CN255)	CKS3598	Not used
43	Holder	CNC7432	CNC7434
49	Remote Control Unit	CXB1225	Not used
50	Cover	CNS4139	Not used
51	Chassis Unit	CXB1983	CXB1989
52	Detach Grille Assy	CXB1994	CXB2005
68	Keyboard Unit	CWM5634	CWM5640
78	Grille Unit	CXB1968	CXB1978
91	Panel	CNS4451	CNS4869
94	IC(IC201)	TDA7386	TDA7384

2.3 CD MECHANISM MODULE

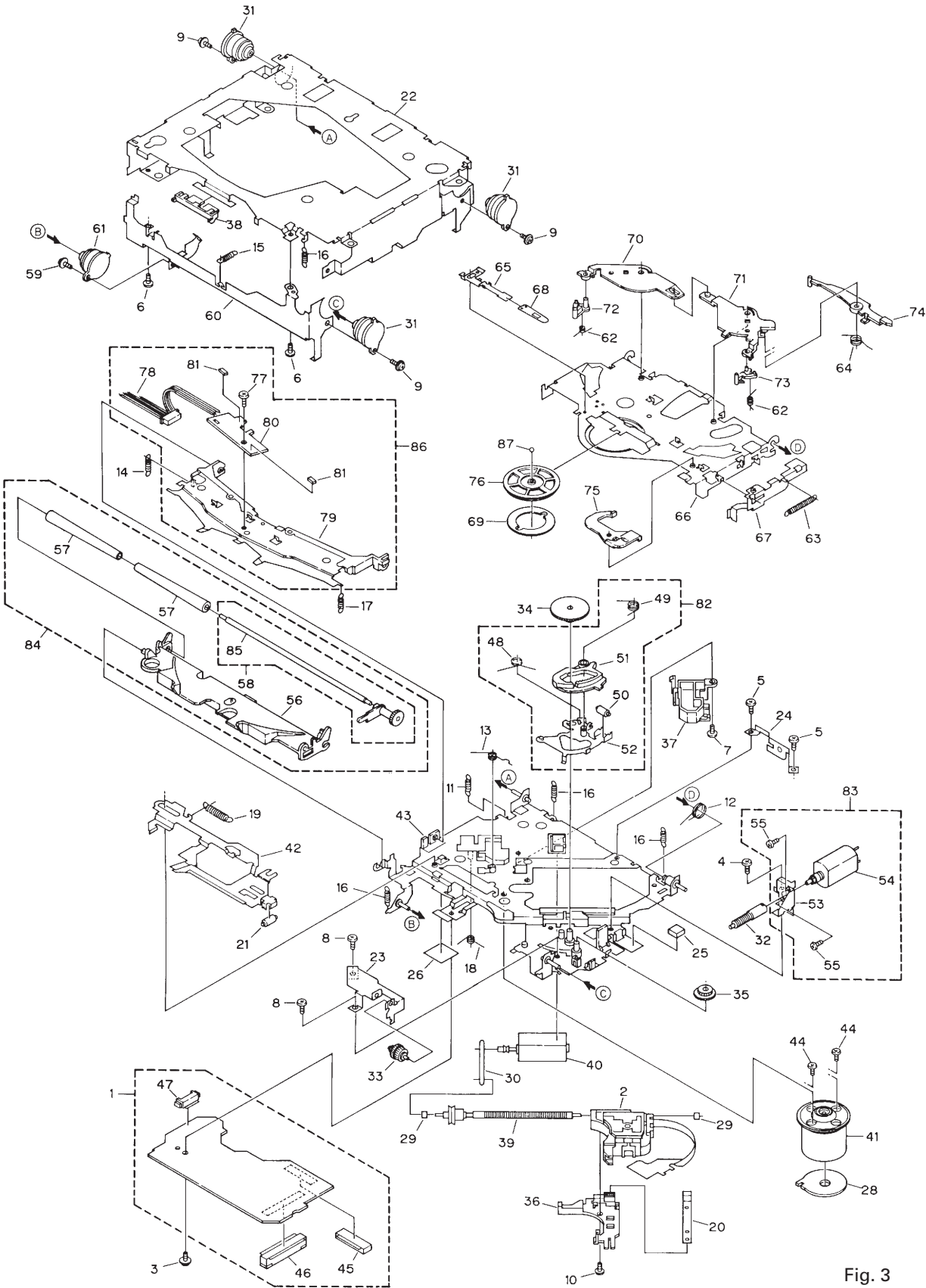


Fig. 3

● CD MECHANISM MODULE SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Control Unit	CWX2224	46	Connector(CN701)	CKS2774
2	Pickup Unit(Service)	CXX1230	47	Connector(CN801)	CKS2196
3	Screw	IMS26P035FMC	48	Spring	CBH1832
4	Screw	BMZ20P025FMC	49	Spring	CBH1833
5	Screw	BMZ20P040FMC	50	Roller	CLA2627
6	Screw	BSZ20P040FMC	51	Arm	CNV4136
7	Screw	CBA1077	52	Arm Unit	CXA8565
8	Screw	CBA1250	53	Bracket	CNC6056
9	Screw	CBA1296	54	Load Motor Unit(S7)	CXA8702
10	Screw	CBA1362	55	Screw	JFZ20P025FMC
11	Spring	CBH1724	56	Arm	CNV4120
12	Spring	CBH1729	57	Roller	CNV4509
13	Spring	CBH1730	58	Gear Unit(S7)	CXA8701
14	Spring	CBH1731	59	Screw	CBA1296
15	Spring	CBH1732	60	Frame	CNC5797
16	Spring	CBH1745	61	Damper	CNV3974
17	Spring	CBH1848	62	Spring	CBH1736
18	Spring	CBH1849	63	Spring	CBH1863
19	Spring	CBH1939	64	Spring	CBH1945
20	Spring	CBL1214	65	Spring	CBL1269
21	Roller	CLA2627	66	Arm	CNC5799
22	Frame	CNC5796	67	Lever	CNC6054
23	Bracket	CNC5871	68	Spacer	CNM3315
* 24	Bracket	CNC6376	69	Sheet	CNM4849
25	Cushion	CNM3917	70	Arm	CNV5436
26	Sheet	CNM4873	71	Arm	CNV4123
27			72	Arm	CNV4124
28	PCB	CNP4230	73	Arm	CNV4125
29	Bearing	CNR1415	74	Arm	CNV4138
30	Belt	CNT1071	75	Arm	CNV4139
31	Damper	CNV3974	76	Clamper	CNV5308
32	Gear	CNV4128	77	Screw	CBA1250
33	Gear	CNV4129	78	Connector(CN1)	CDE4576
34	Gear	CNV4130	79	Arm	CNC7383
35	Gear	CNV4131	* 80	Gathering PCB	CNX2445
36	Holder	CNV4663	81	Photo-transistor(Q1, 2)	CPT-230S-X
37	Holder	CNV5071	82	ELBO Arm Assy(S7)	CXA8889
38	Guide	CNV4484	83	Load Motor Assy(S7)	CXA8891
39	Screw Unit(S7)	CXA8699	84	LO Arm Assy(S7)	CXA8892
40	CRG Motor Unit(S7)	CXA8986	85	Shaft	CLA3133
41	Motor Unit	CXA8912	86	Guide Arm Assy(S7)	CXB1850
42	Lever Unit	CXA9300	87	Ball	CNR1189
43	Chassis Unit	CXB2574			
44	Screw	JFZ20P025FMC			
45	Connector(CN101)	CKS1953			

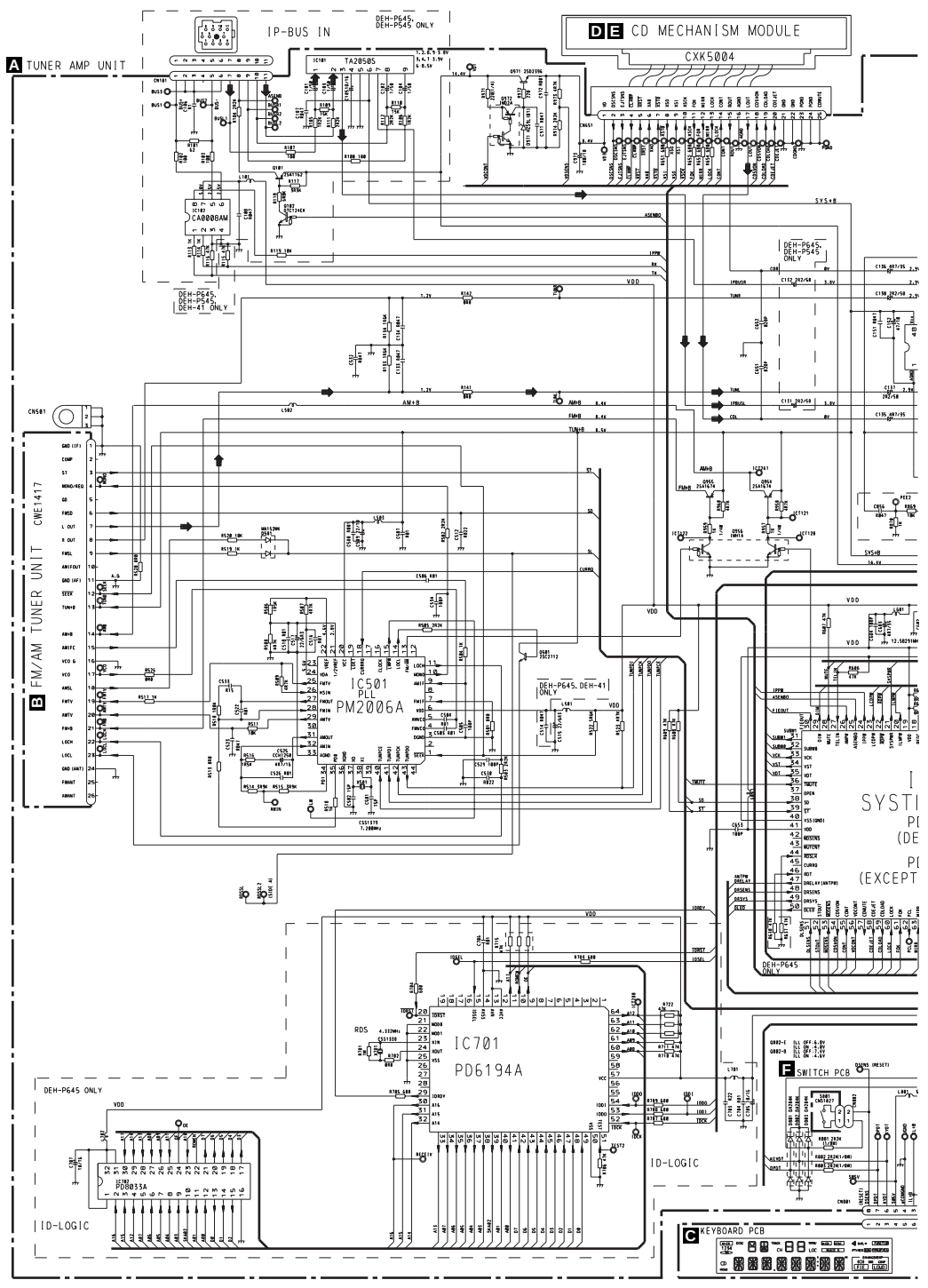
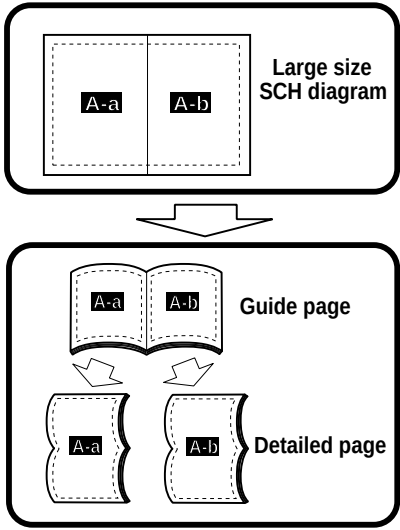
3. SCHEMATIC DIAGRAM

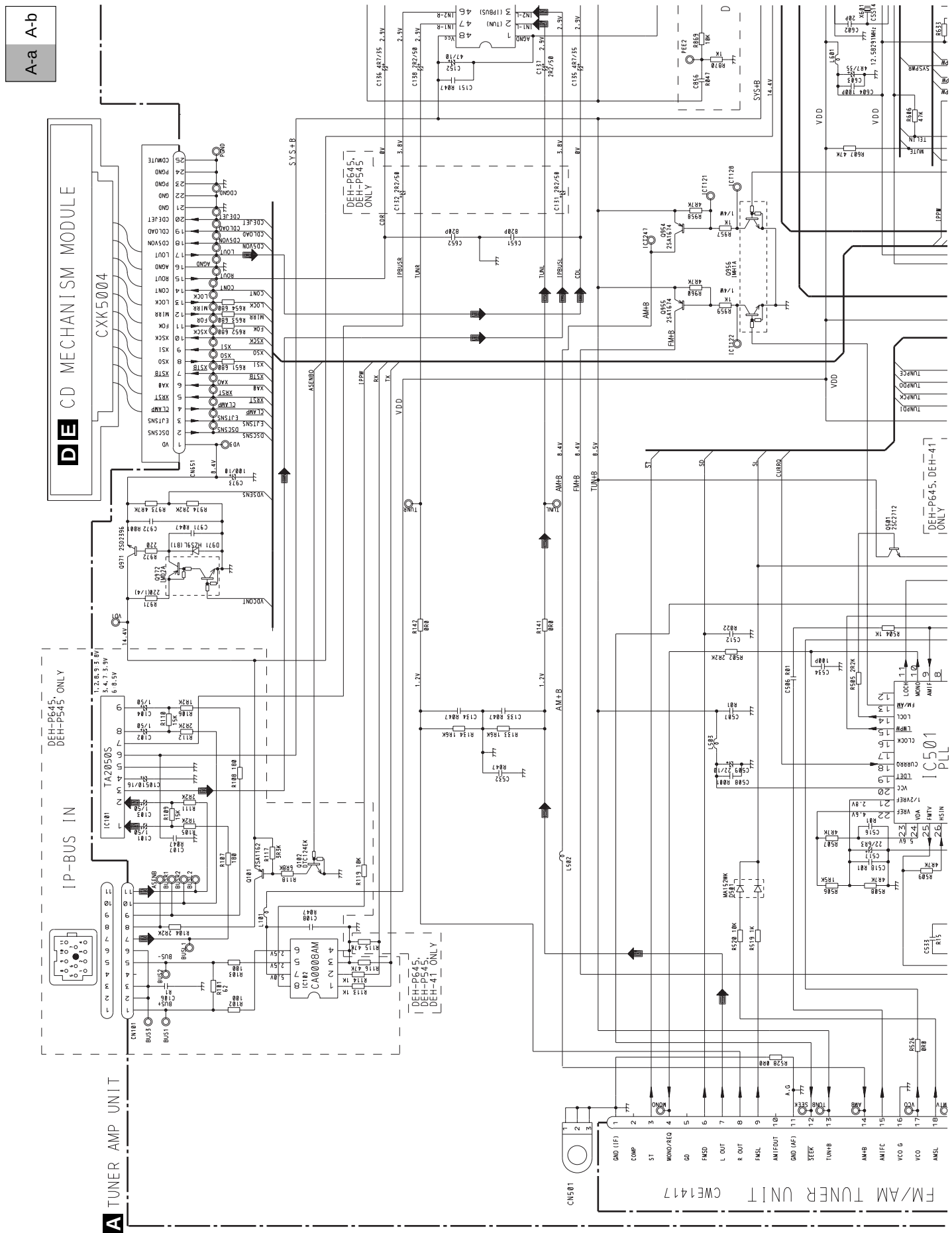
3.1 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)

Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".

● DEH-P645/UC,DEH-P545/UC,DEH-445/UC,DEH-41/UC

A-a





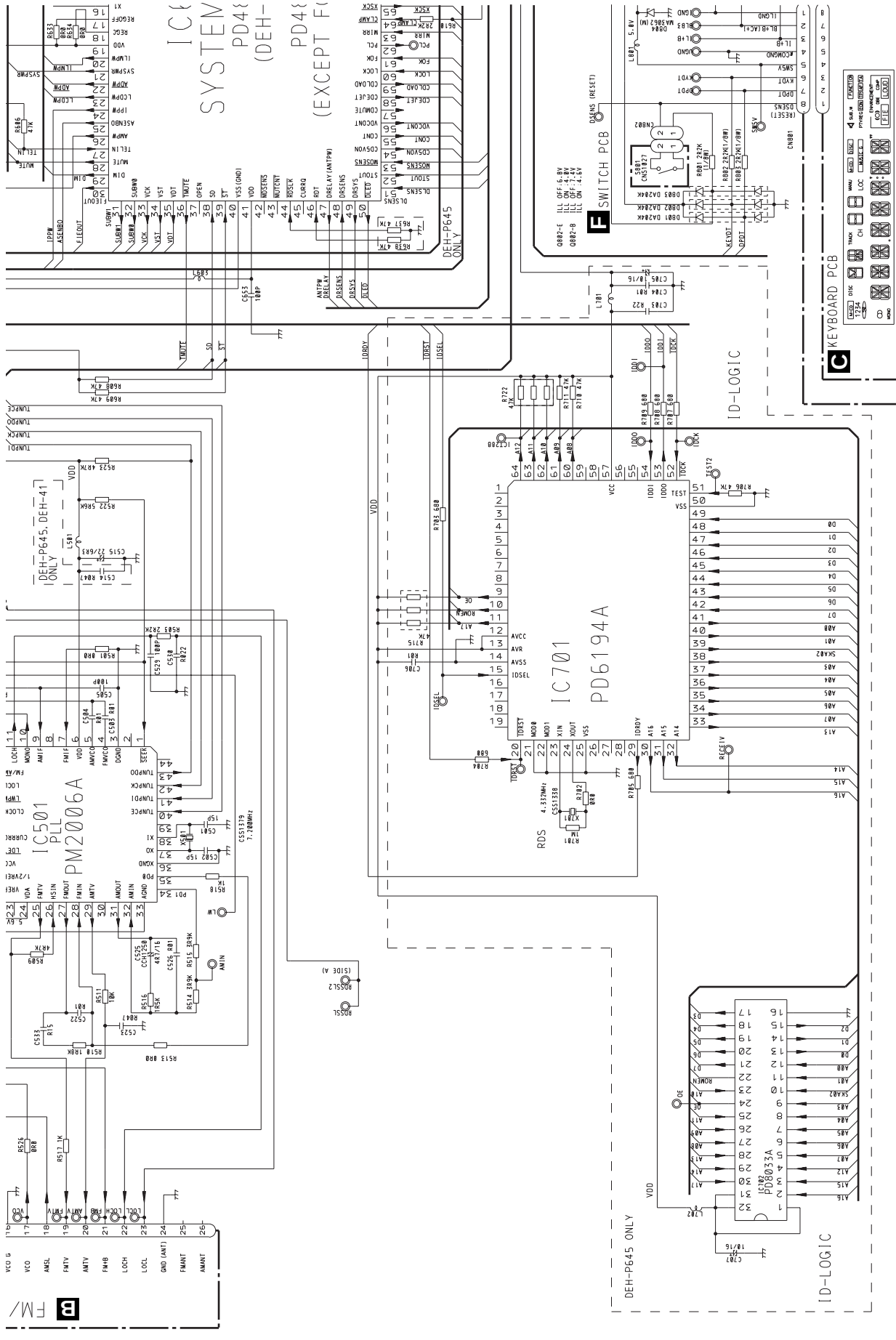
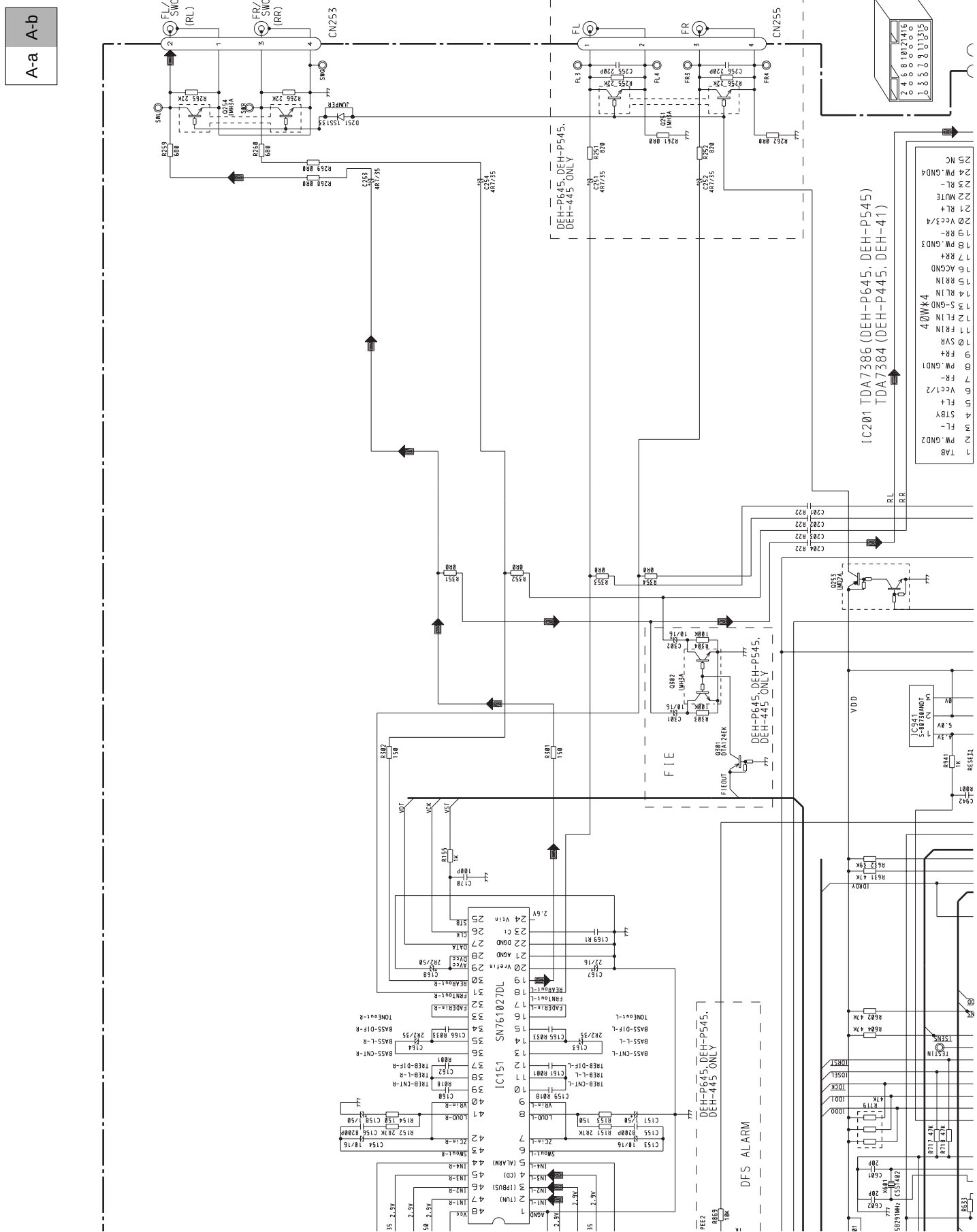
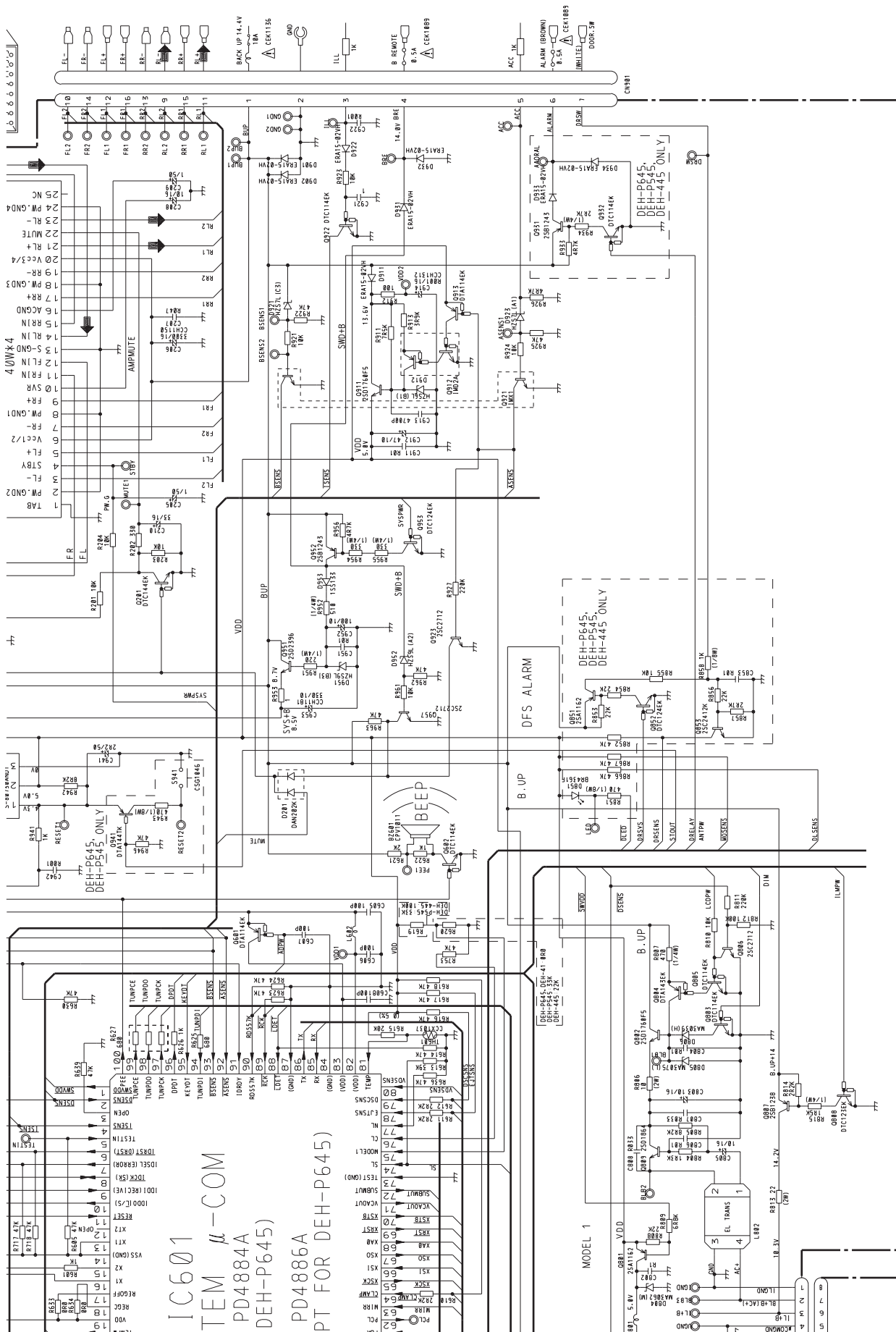


Fig. 5





The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

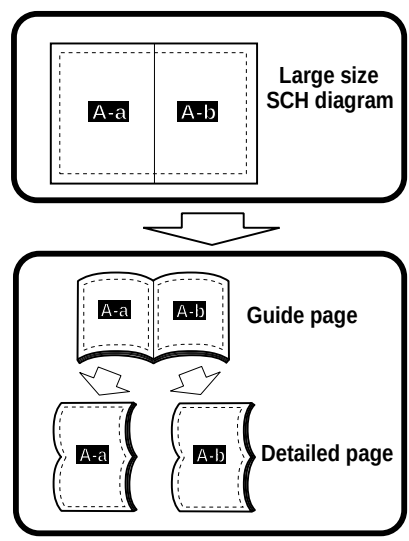
Decimal points for resistor and capacitor fixed values are expressed as:
 2.2-2R2
 0.022-R022

Fig. 6

3.2 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)

● DEH-P56/UC,DEH-46/UC

A

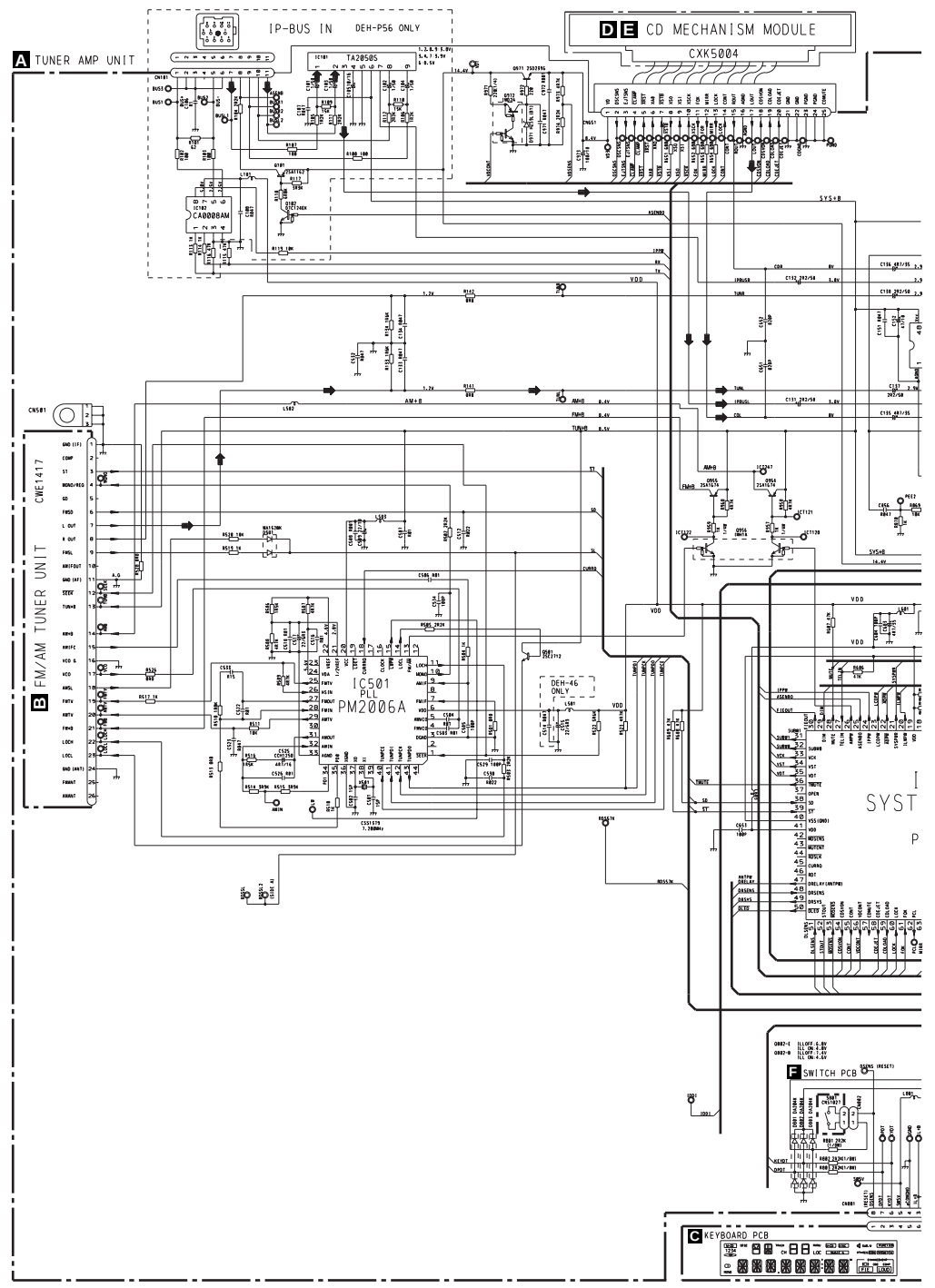


B

C

D

A-a



A-b

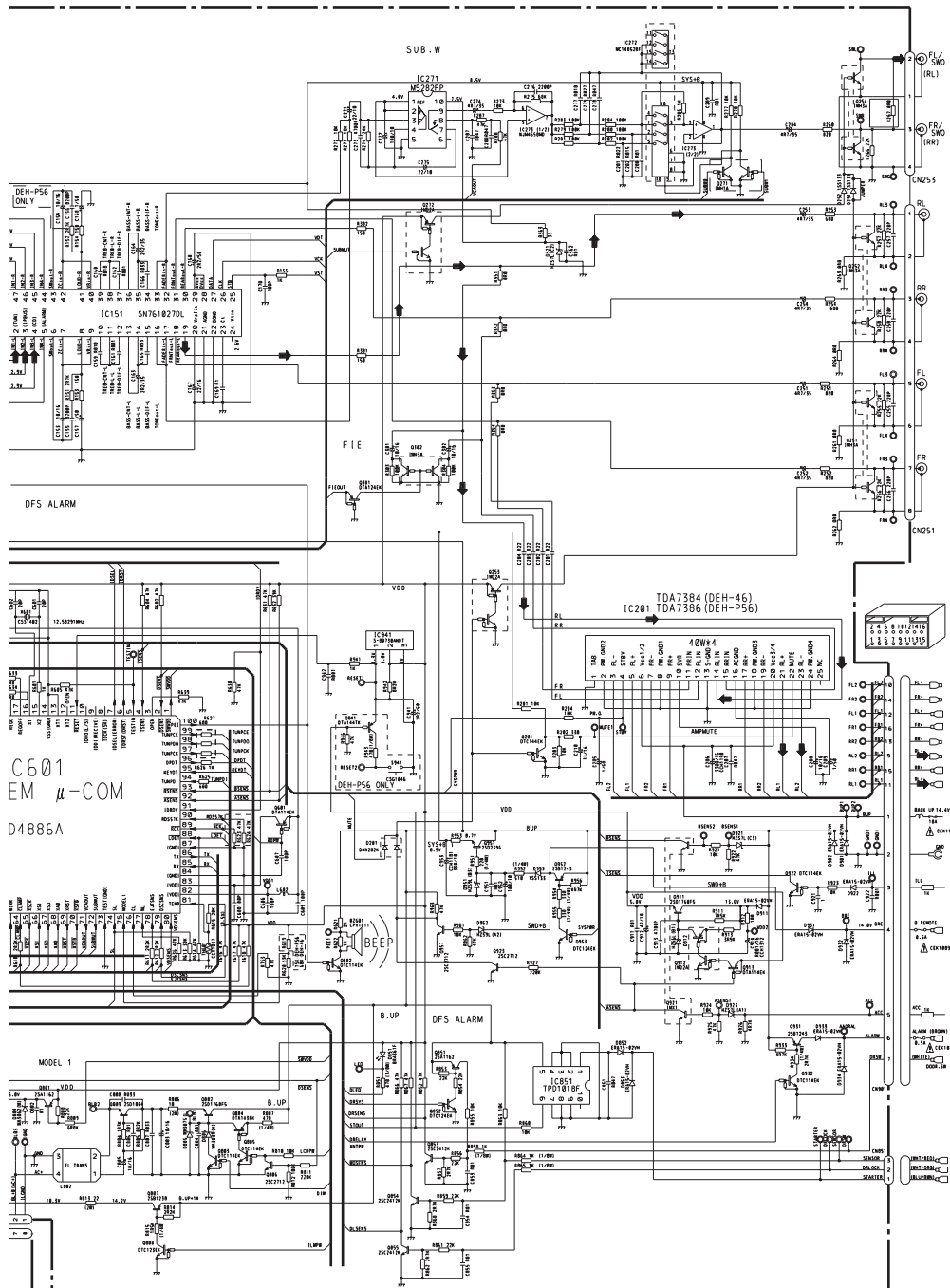
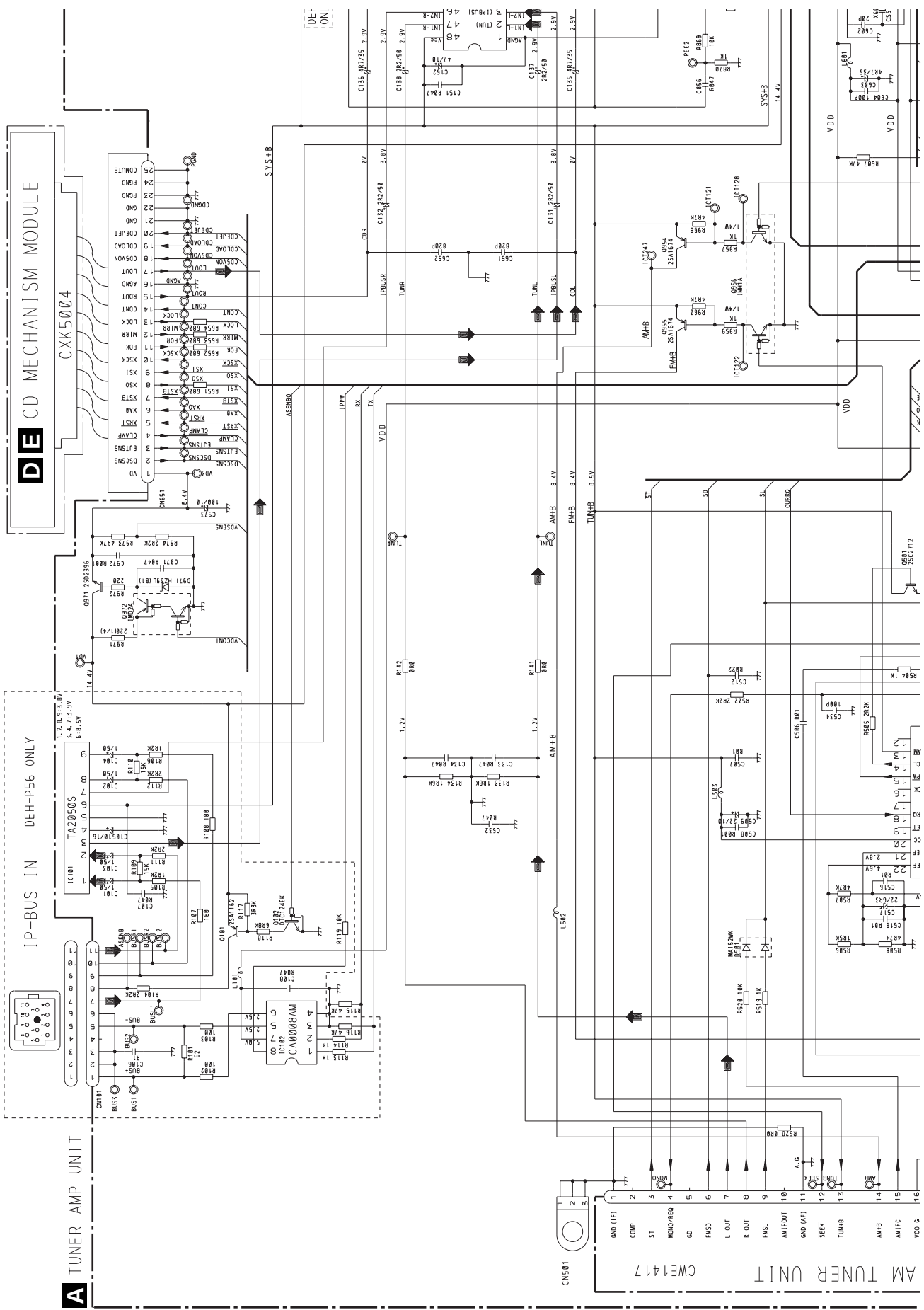


Fig. 7

A-a A-b



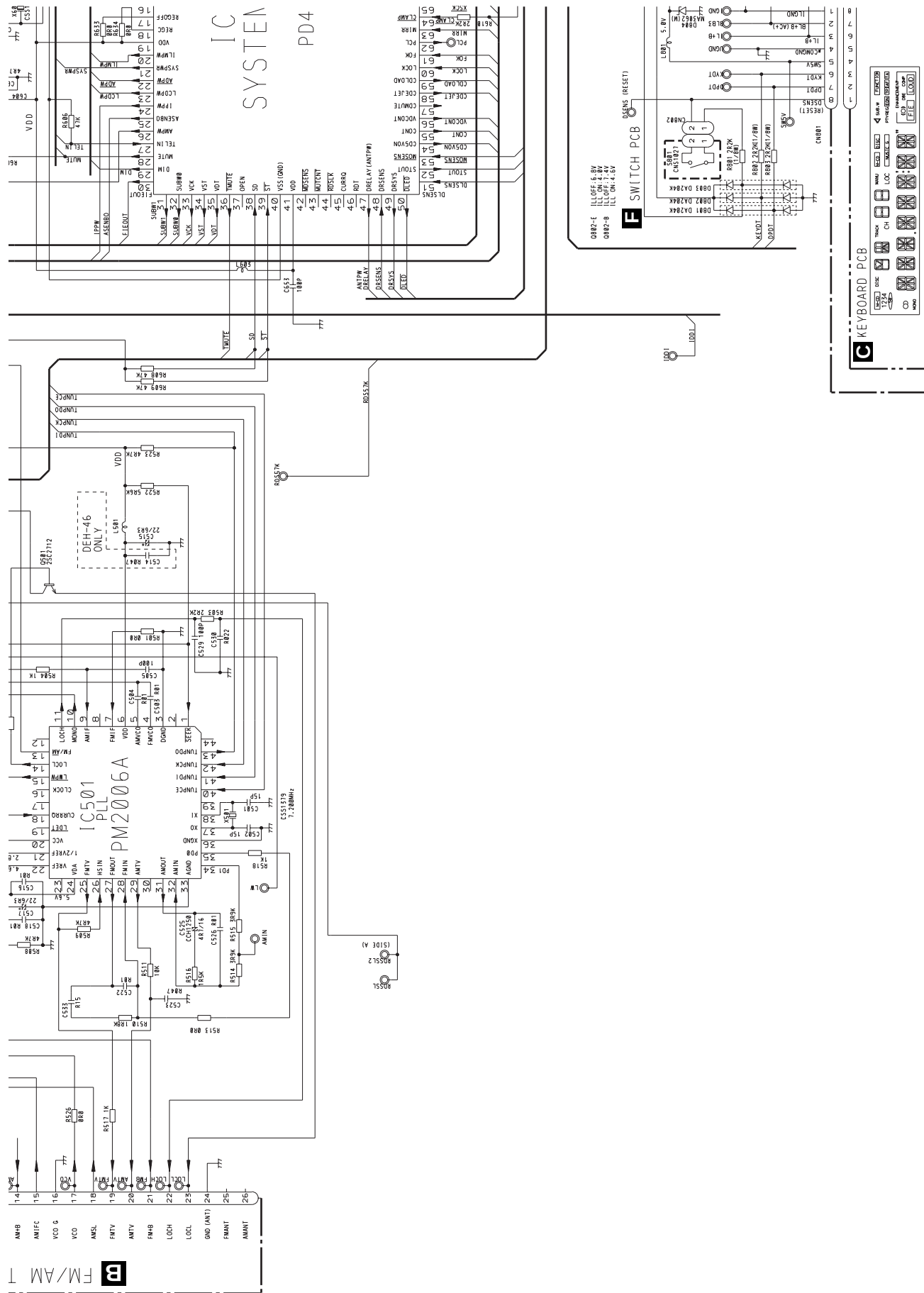
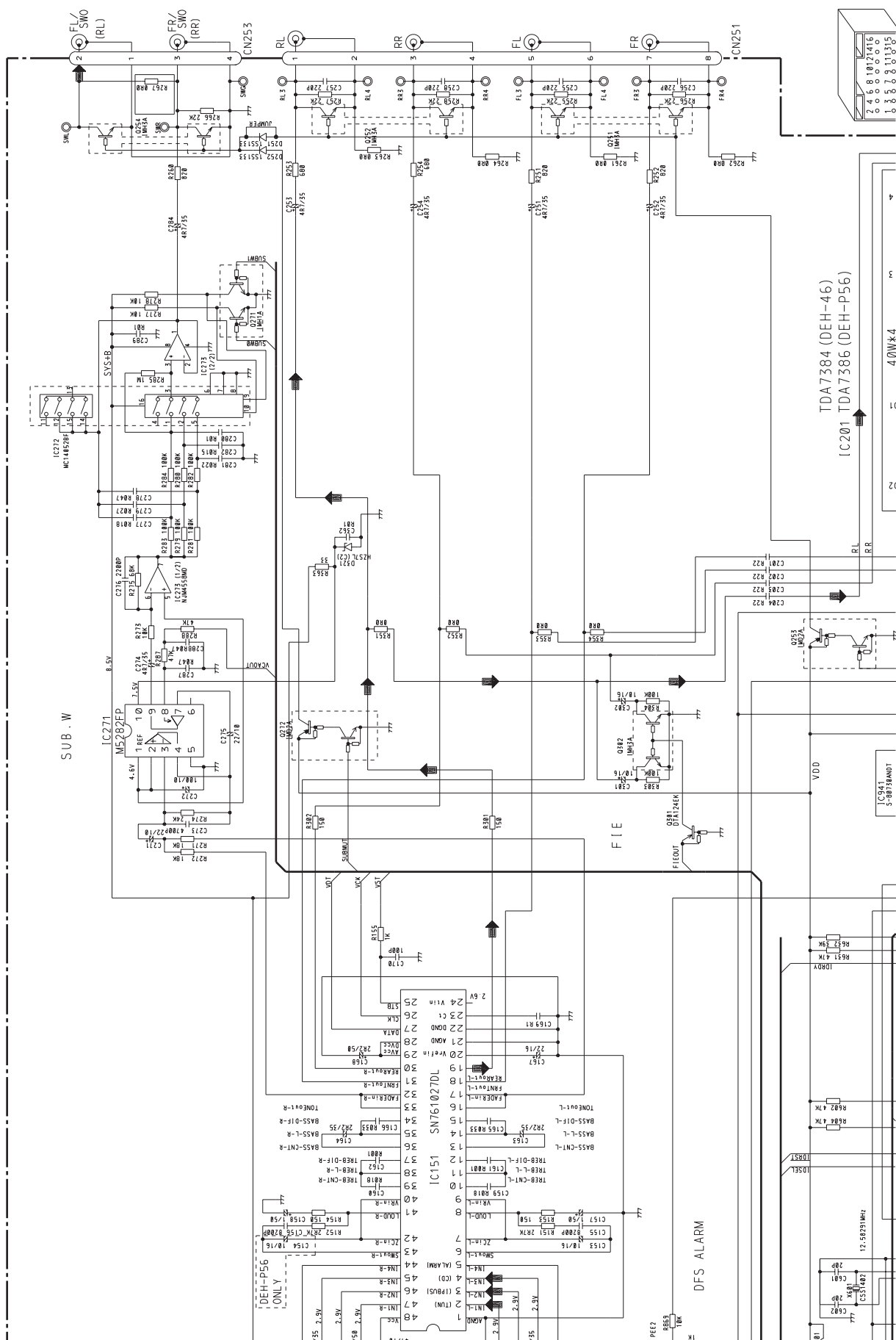
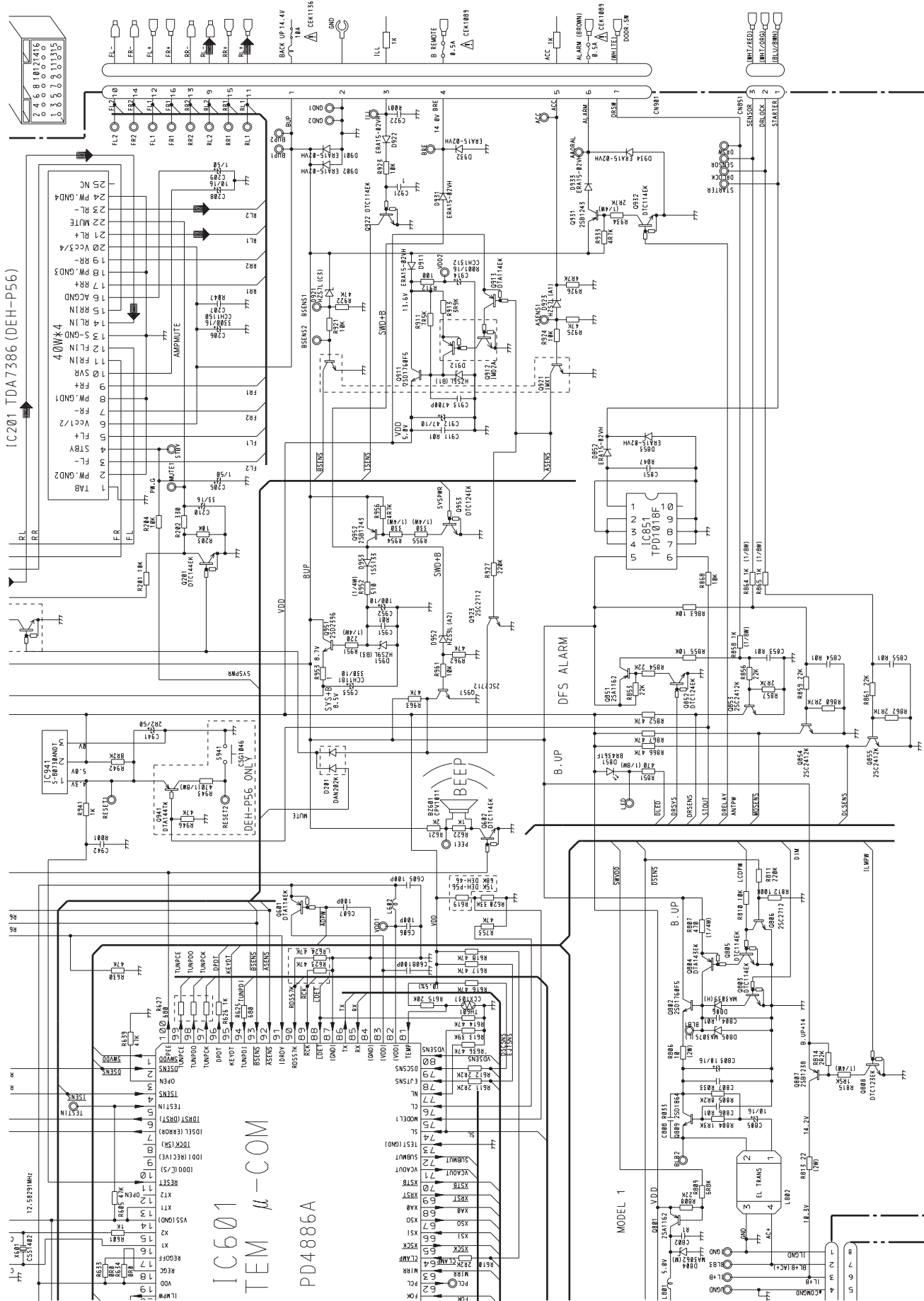


Fig. 8

A-a	A-b
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The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

Decimal points for resistor and capacitor fixed values are expressed as:

NOTE :

-  Symbol indicates a resistor.
- No differentiation is made between chip resistors and discrete resistors.
-  Symbol indicates a capacitor.
- No differentiation is made between chip capacitors and discrete capacitors.

NOTE :
 Symt
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NOTE :

 Symbol indicates a resistor.
No differentiation is made between discrete resistors.

 Symbol indicates a capacitor.
No differentiation is made between discrete capacitors.

NOTE :

-  Symbol indicates a resistor.
- No differentiation is made between chip resistors and discrete resistors.
-  Symbol indicates a capacitor.
- No differentiation is made between chip capacitors and discrete capacitors.

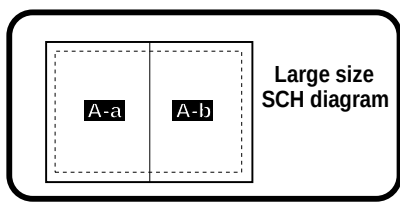
Decimal points for resistor and capacitor fixed values are expressed as:

The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

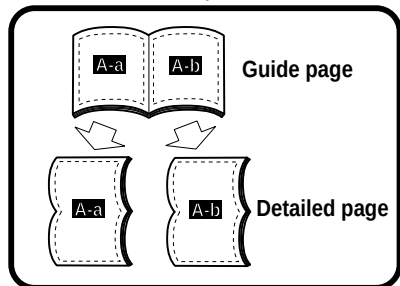
Fig. 9

3.3 CD MECHANISM MODULE(GUIDE PAGE)

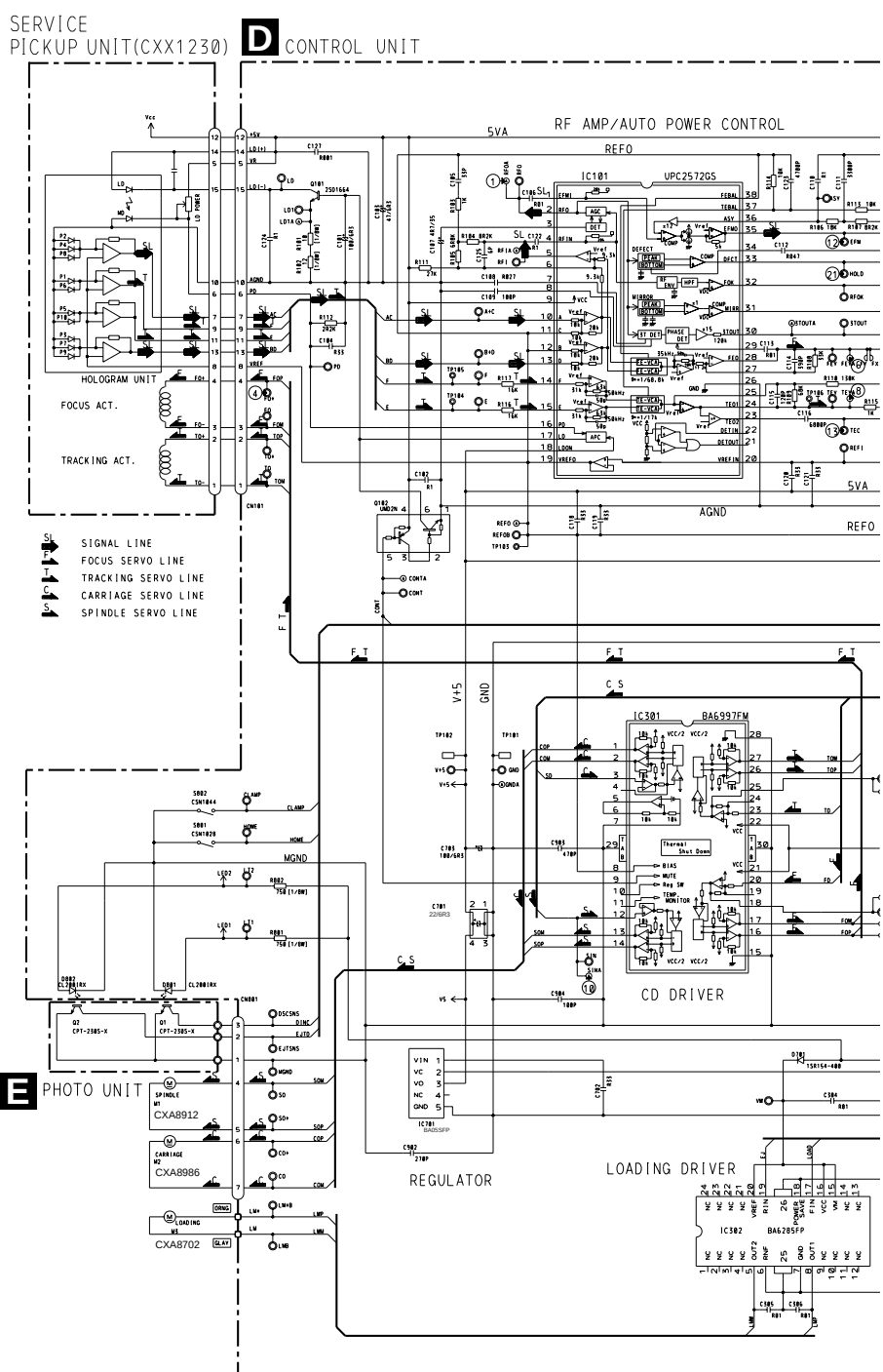
A



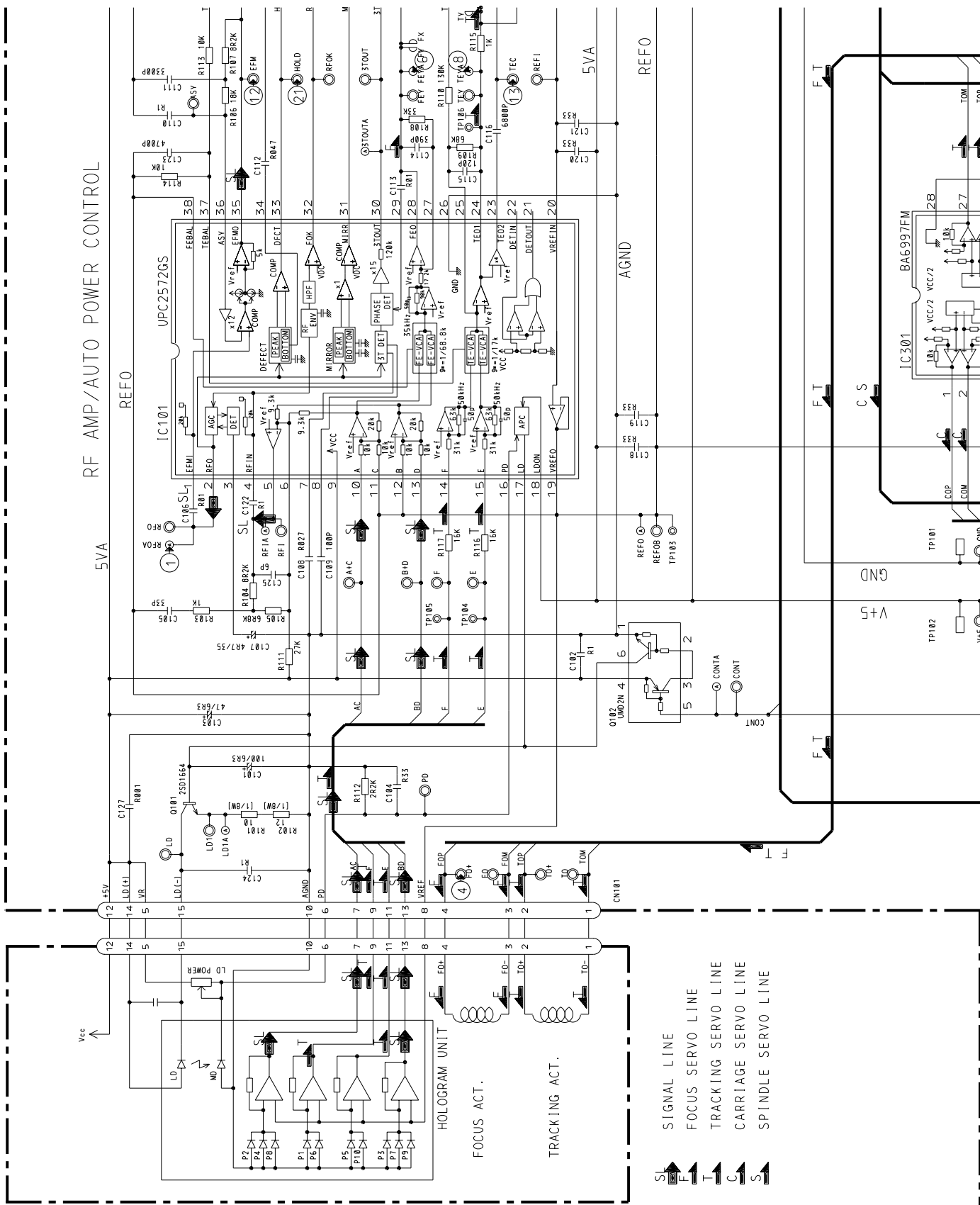
B



C



D



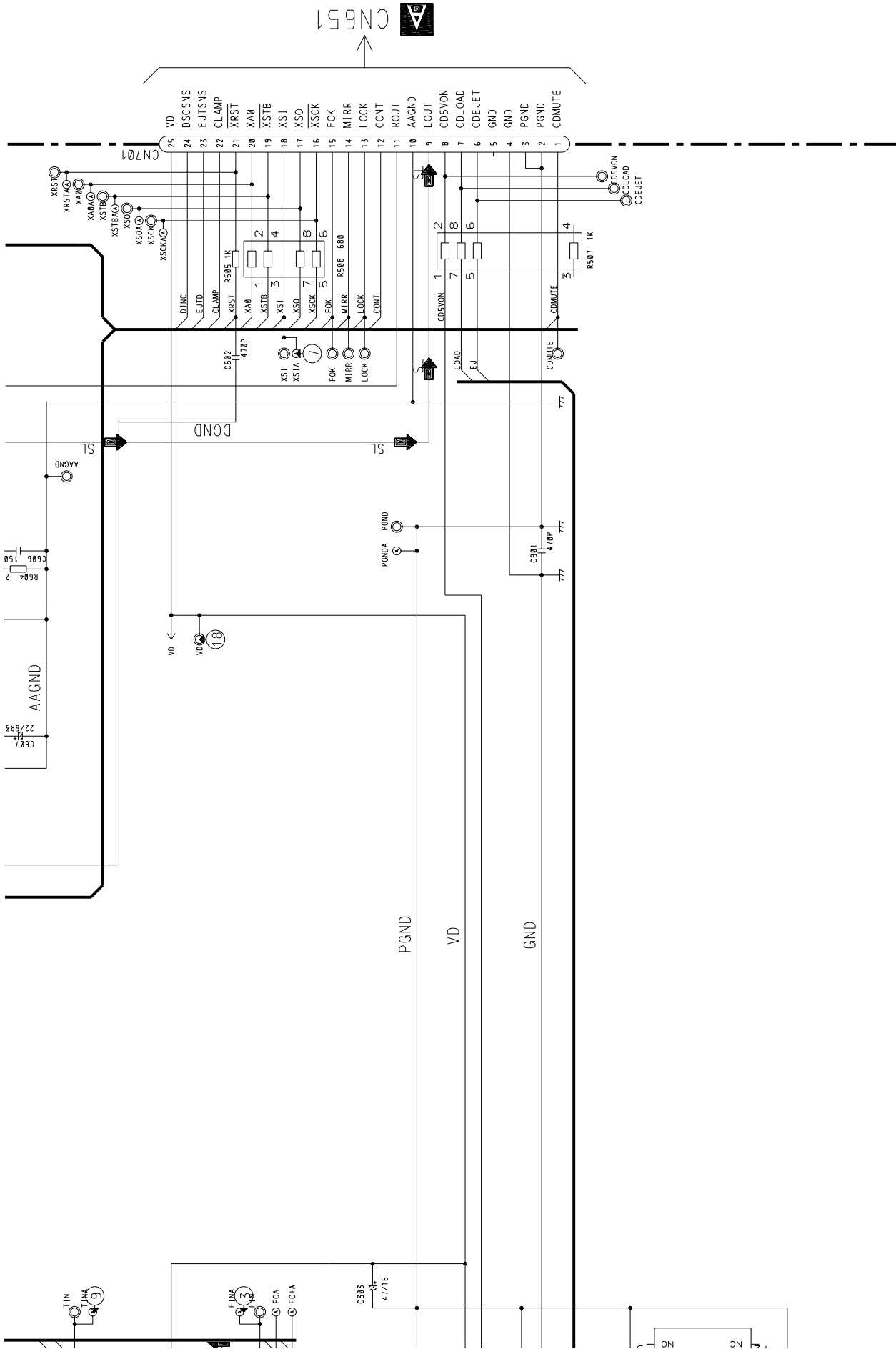
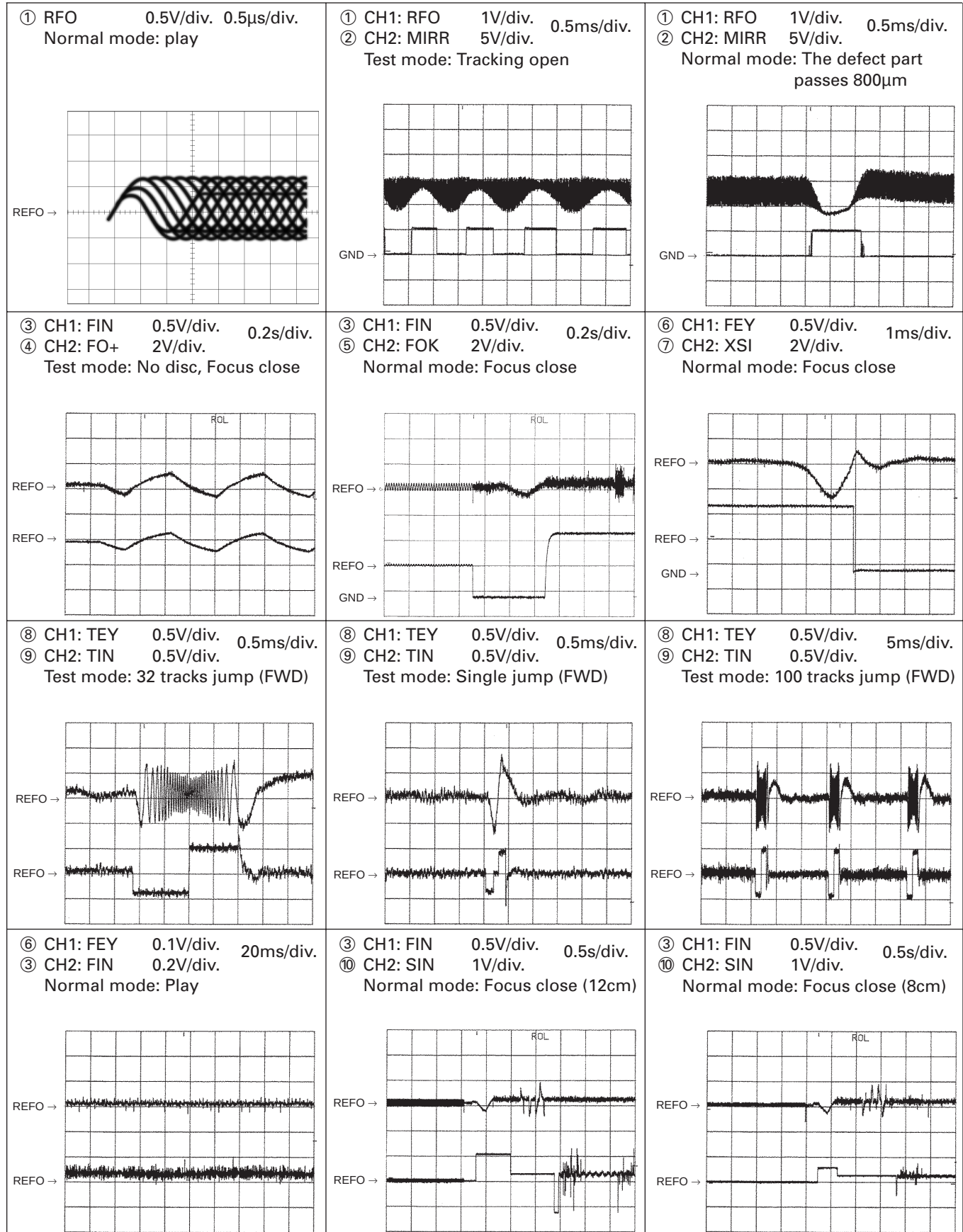
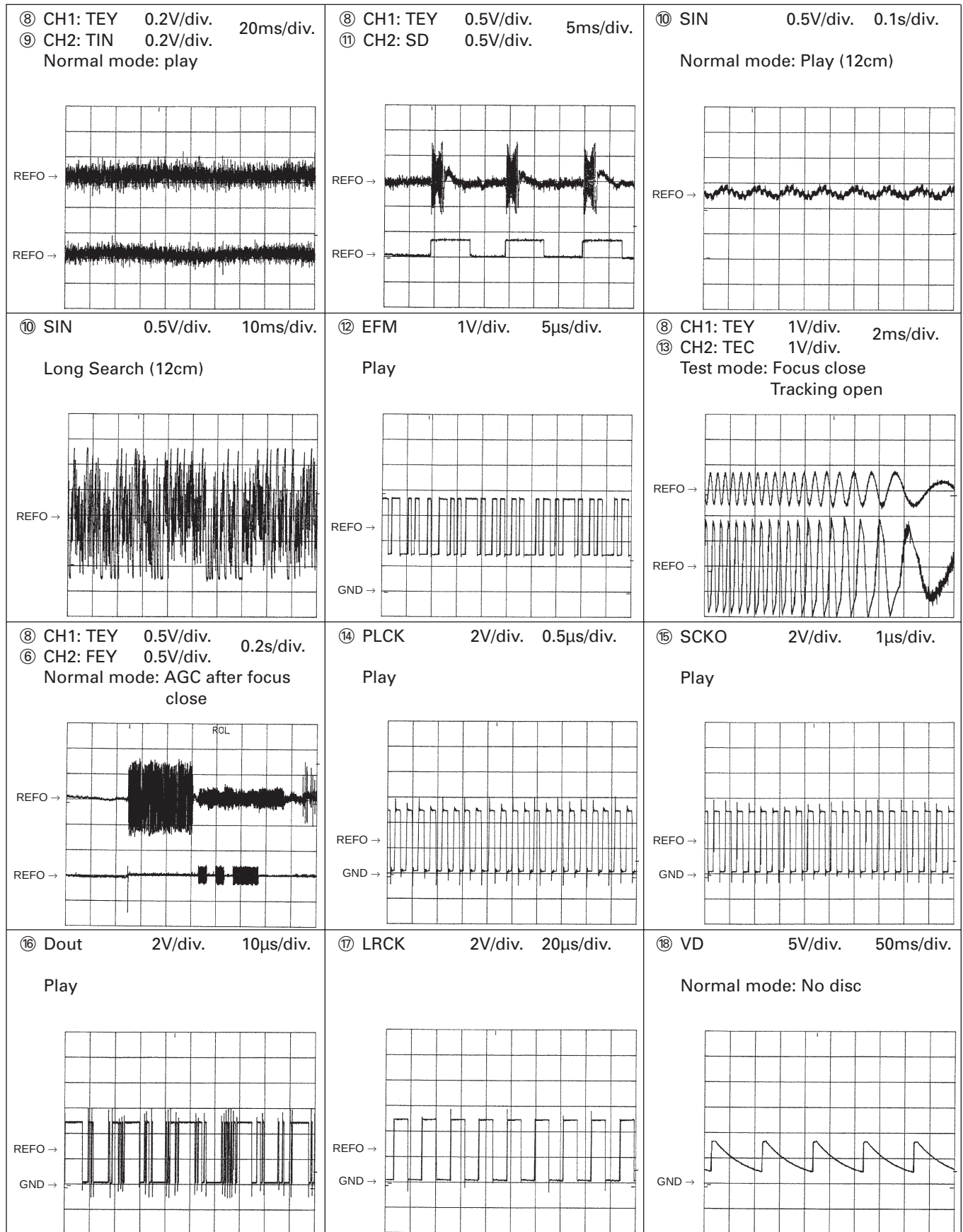


Fig. 12

Note:1. The encircled numbers denote measuring pointes in the circuit diagram.
2. Reference voltage
REFO:2.5V

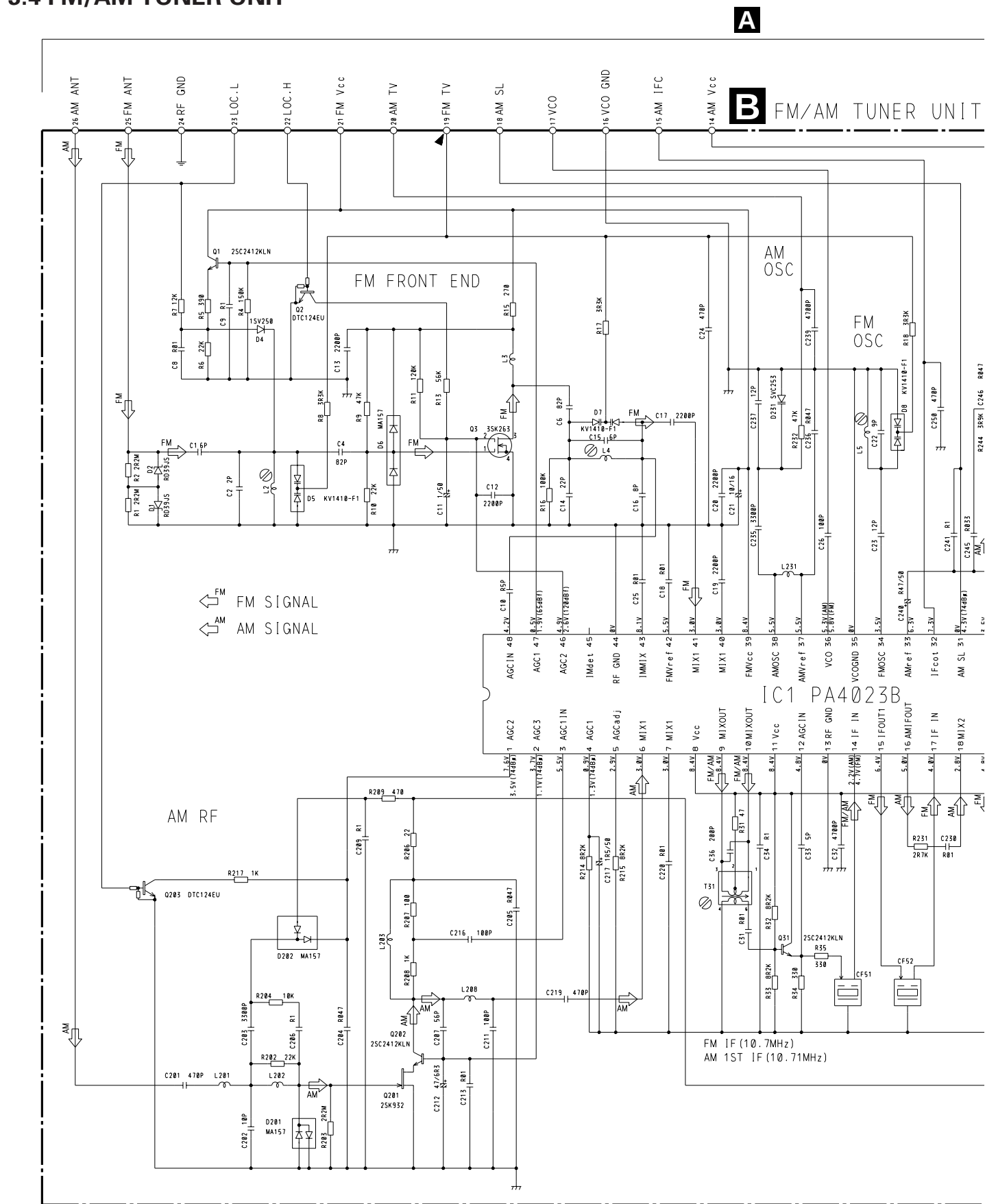
● Waveforms





⑱ CH1: R OUT 1V/div. 0.2ms/div. ⑳ CH2: L OUT 1V/div. 0.2ms/div. Normal mode: Play (1kHz 0dB) REFO → REFO →	⑥ CH1: FEY 0.2V/div. 1ms/div. ③ CH2: FIN 0.5V/div. 1ms/div. Normal mode: During AGC REFO → REFO →	⑧ CH1: TEY 0.2V/div. 1ms/div. ⑨ CH2: TIN 0.5V/div. 1ms/div. Normal mode: During AGC REFO → REFO →
① CH1: RFO 1V/div. 0.5ms/div. ② CH2: HOLD 5V/div. 0.5ms/div. Normal mode: The defect part passes 800μm GND →	③ CH1: FIN 1V/div. 0.5ms/div. ② CH2: HOLD 5V/div. 0.5ms/div. Normal mode: The defect part passes 800μm GND →	

3.4 FM/AM TUNER UNIT



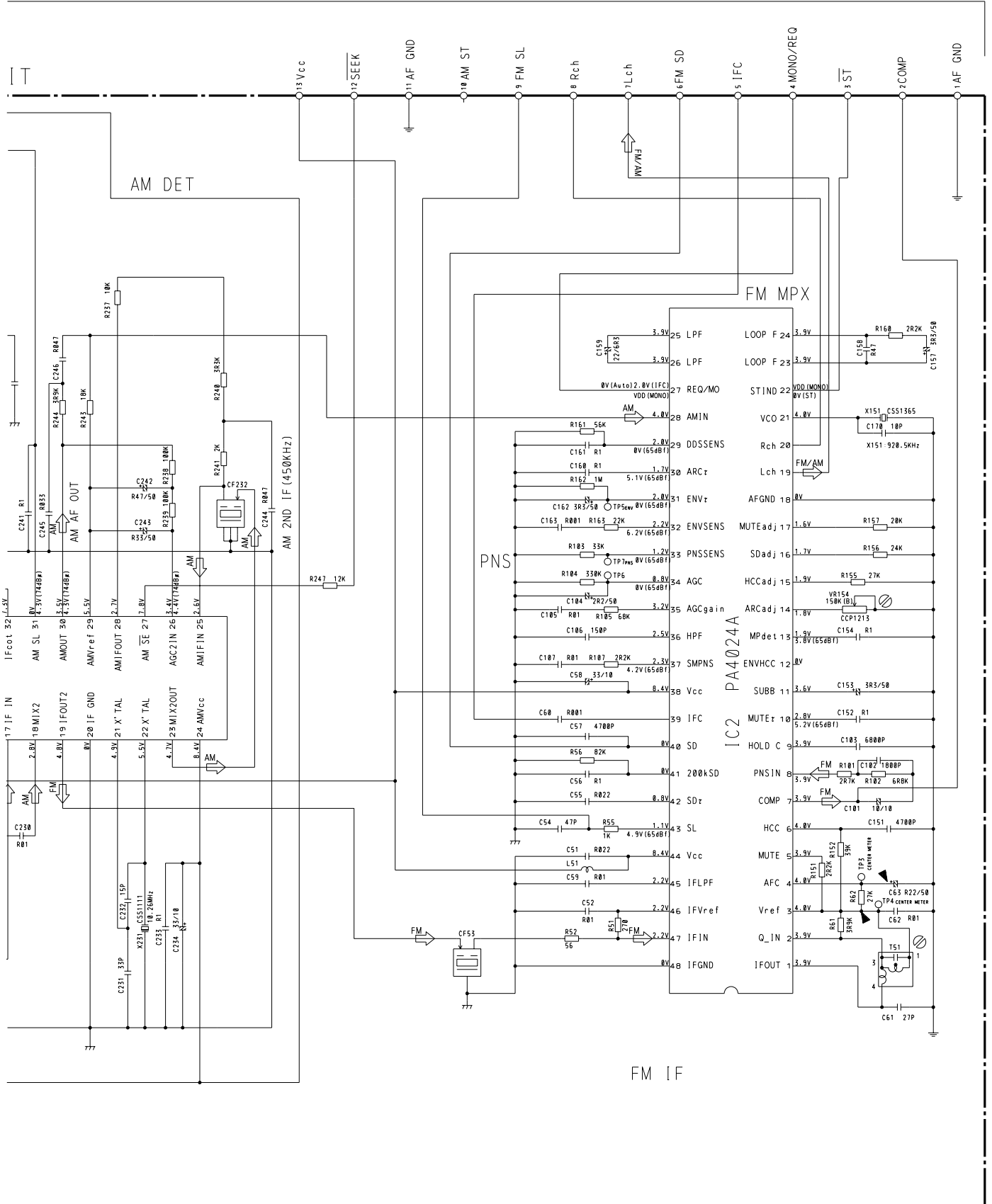


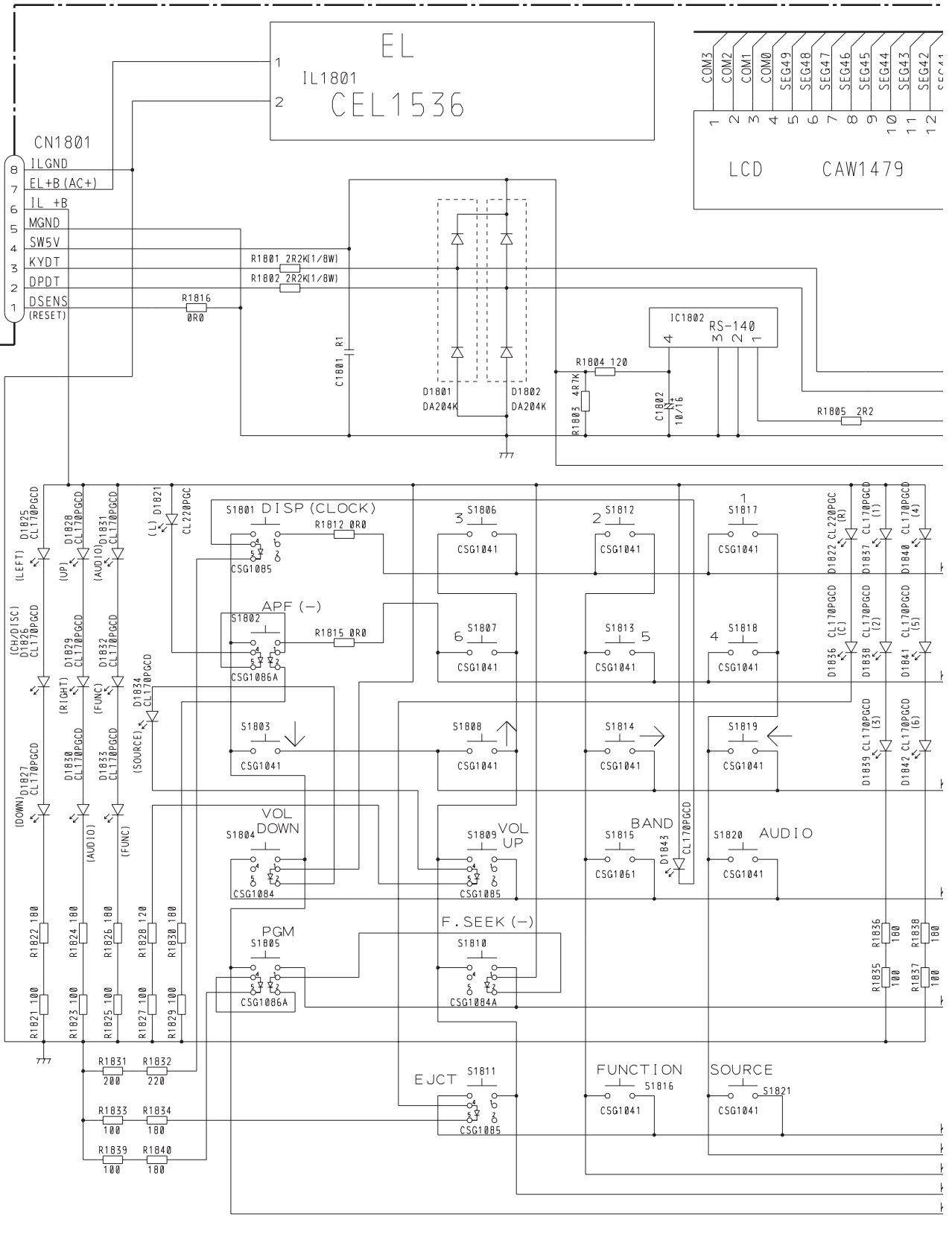
Fig. 13

3.5 KEYBOARD PCB

● DEH-P645/UC

C KEYBOARD PCB

A CN801



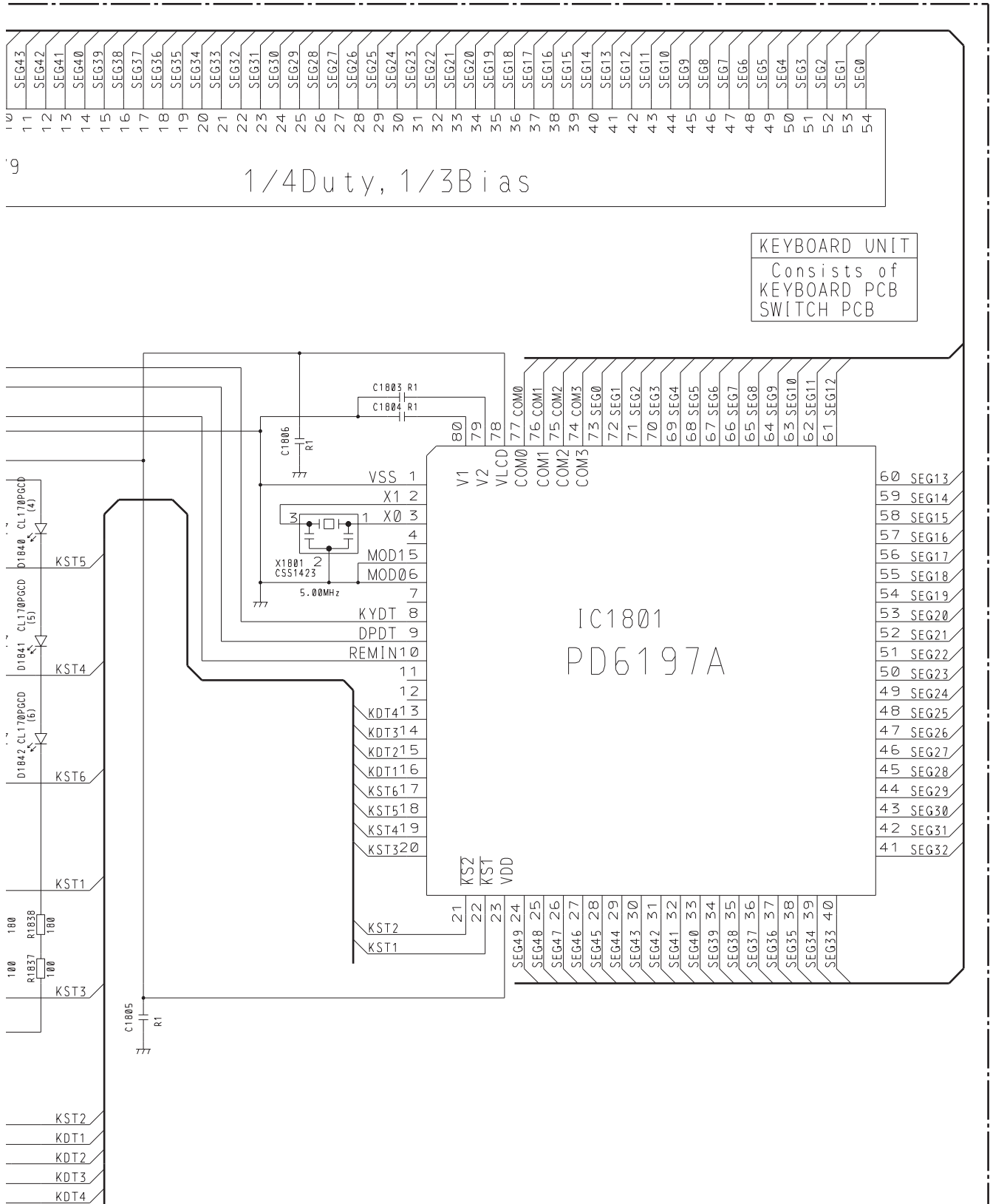


Fig. 14

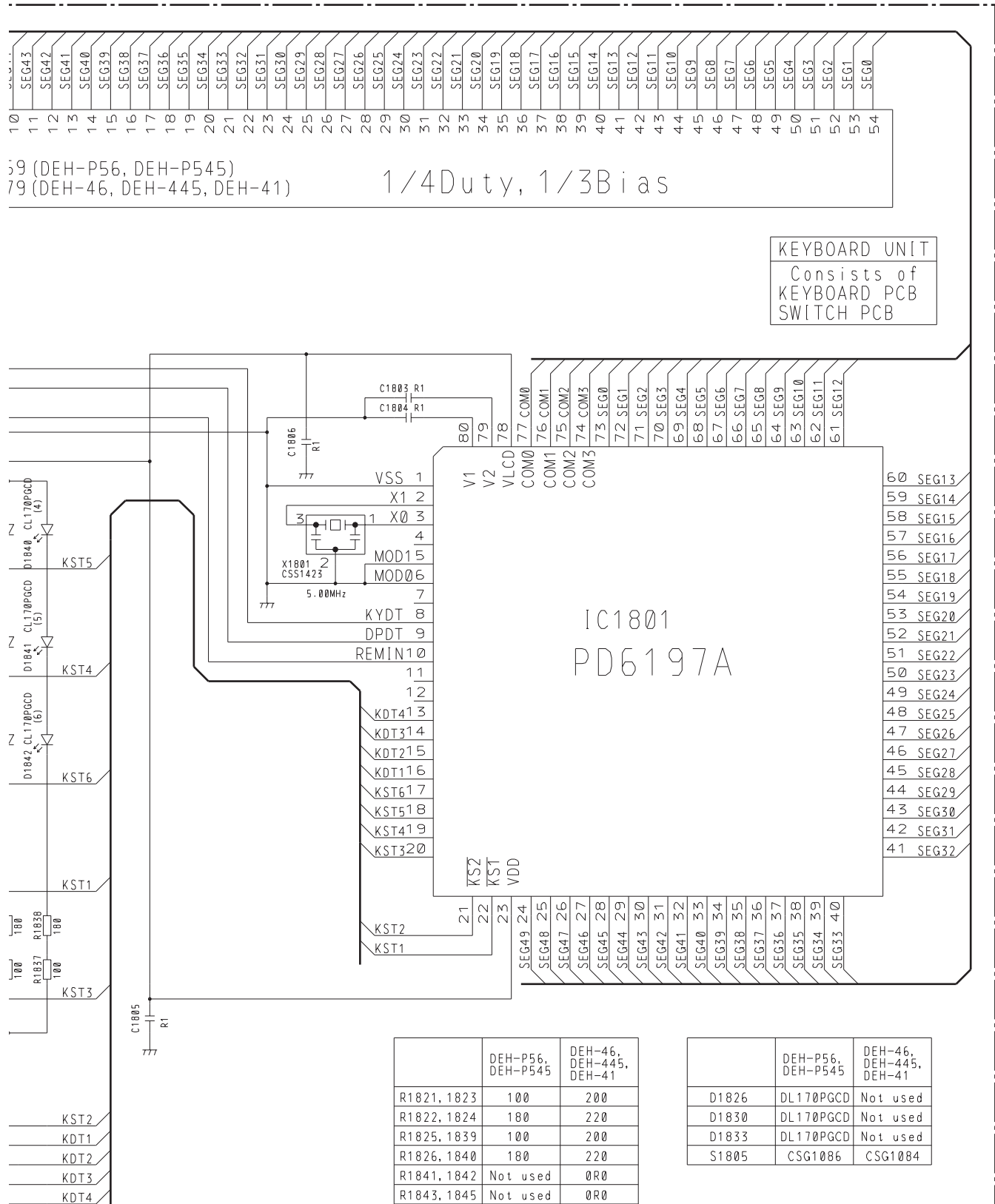


Fig. 15

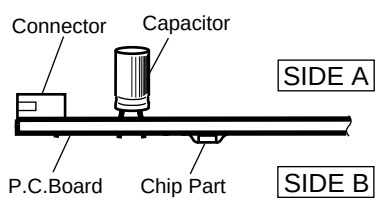
4. PCB CONNECTION DIAGRAM

4.1 TUNER AMP UNIT

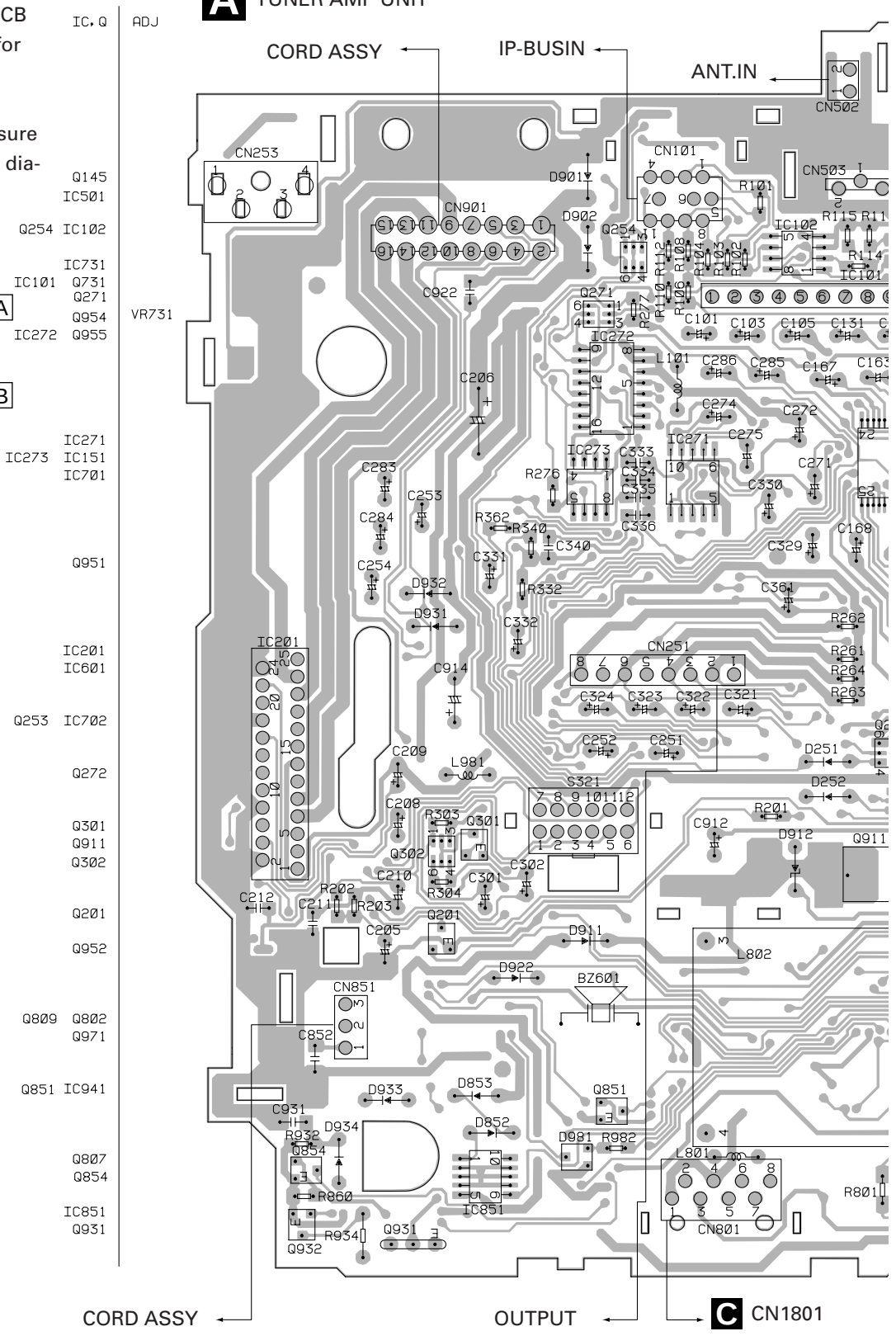
NOTE FOR PCB DIAGRAMS

1. The parts mounted on this PCB include all necessary parts for several destination.
For further information for respective destinations, be sure to check with the schematic diagram.

2. Viewpoint of PCB diagrams



A TUNER AMP UNIT



SIDE A

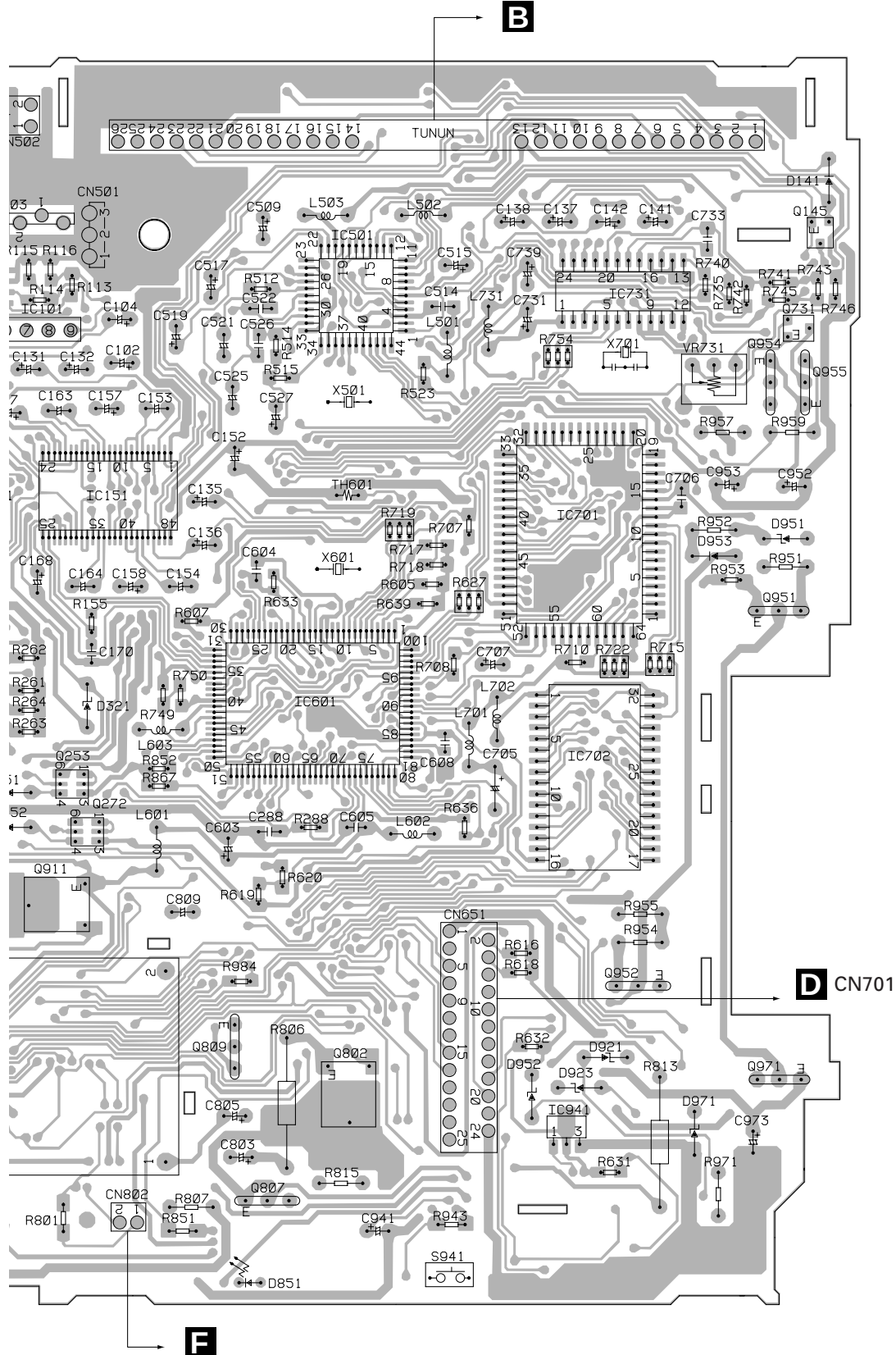
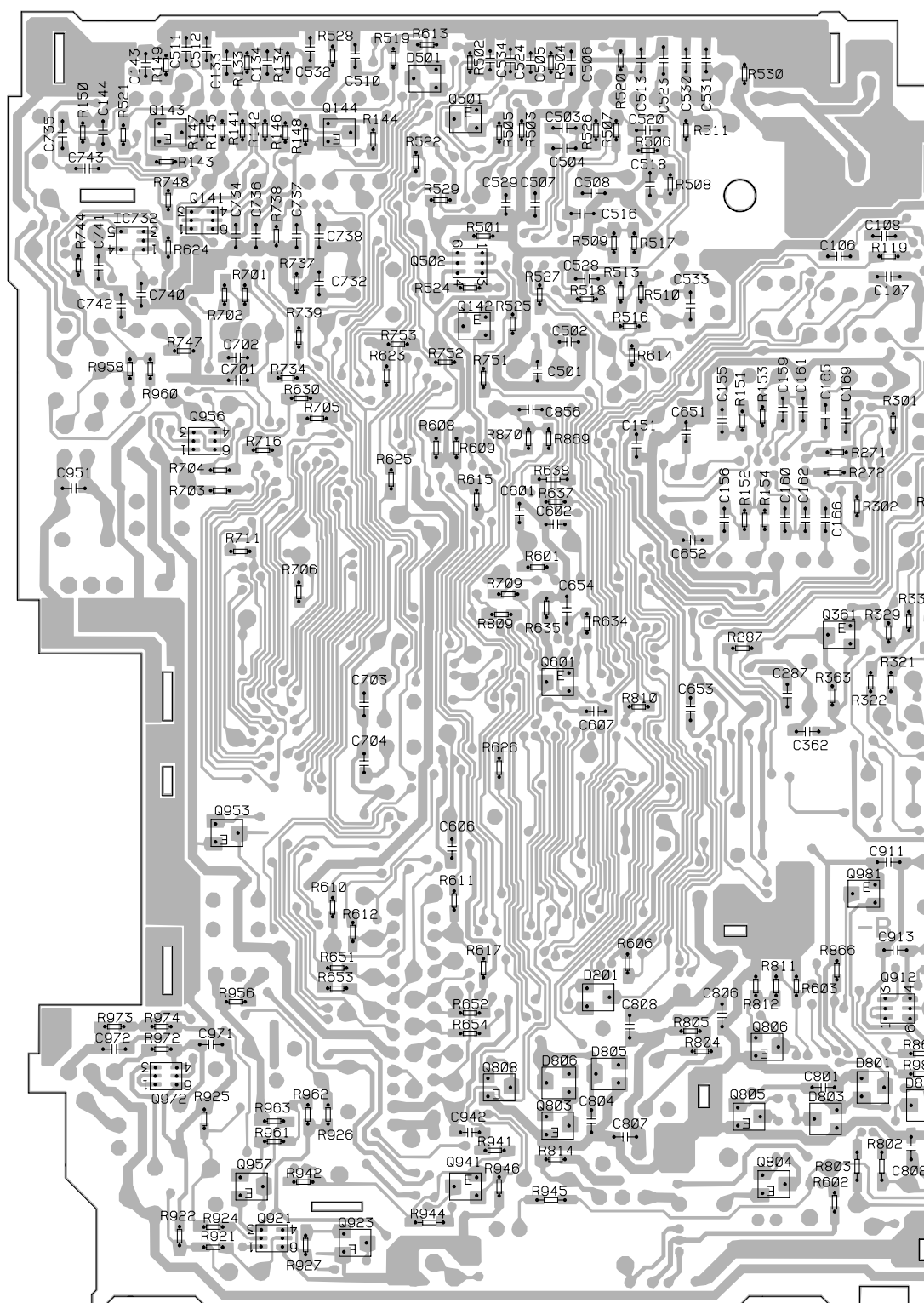


Fig. 16

A TUNER AMP UNIT



4.2 FM/AM TUNER UNIT

SIDE A

B FM/AM TUNER UNIT

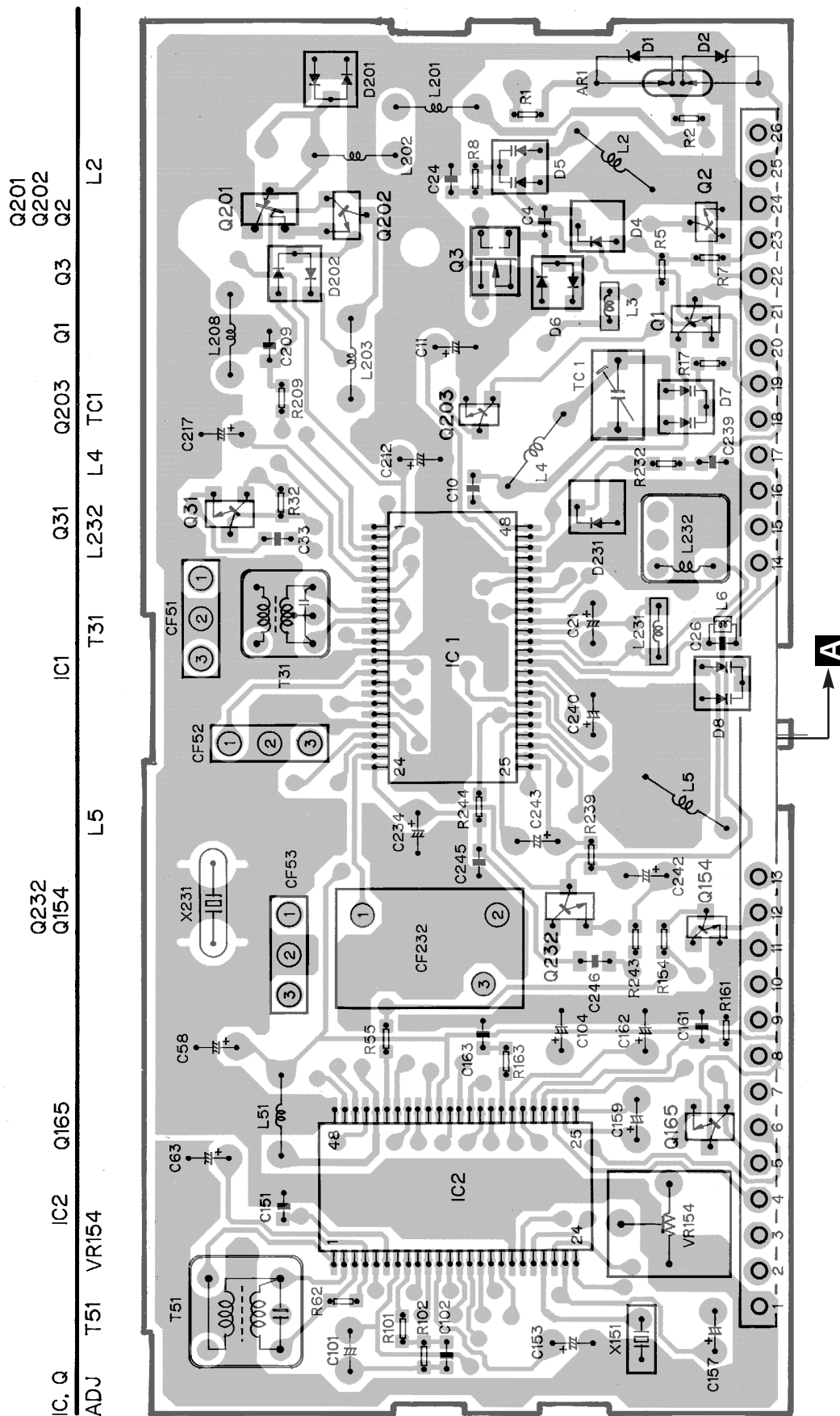


Fig. 18

4.3 CD MECHANISM MODULE

SIDE A

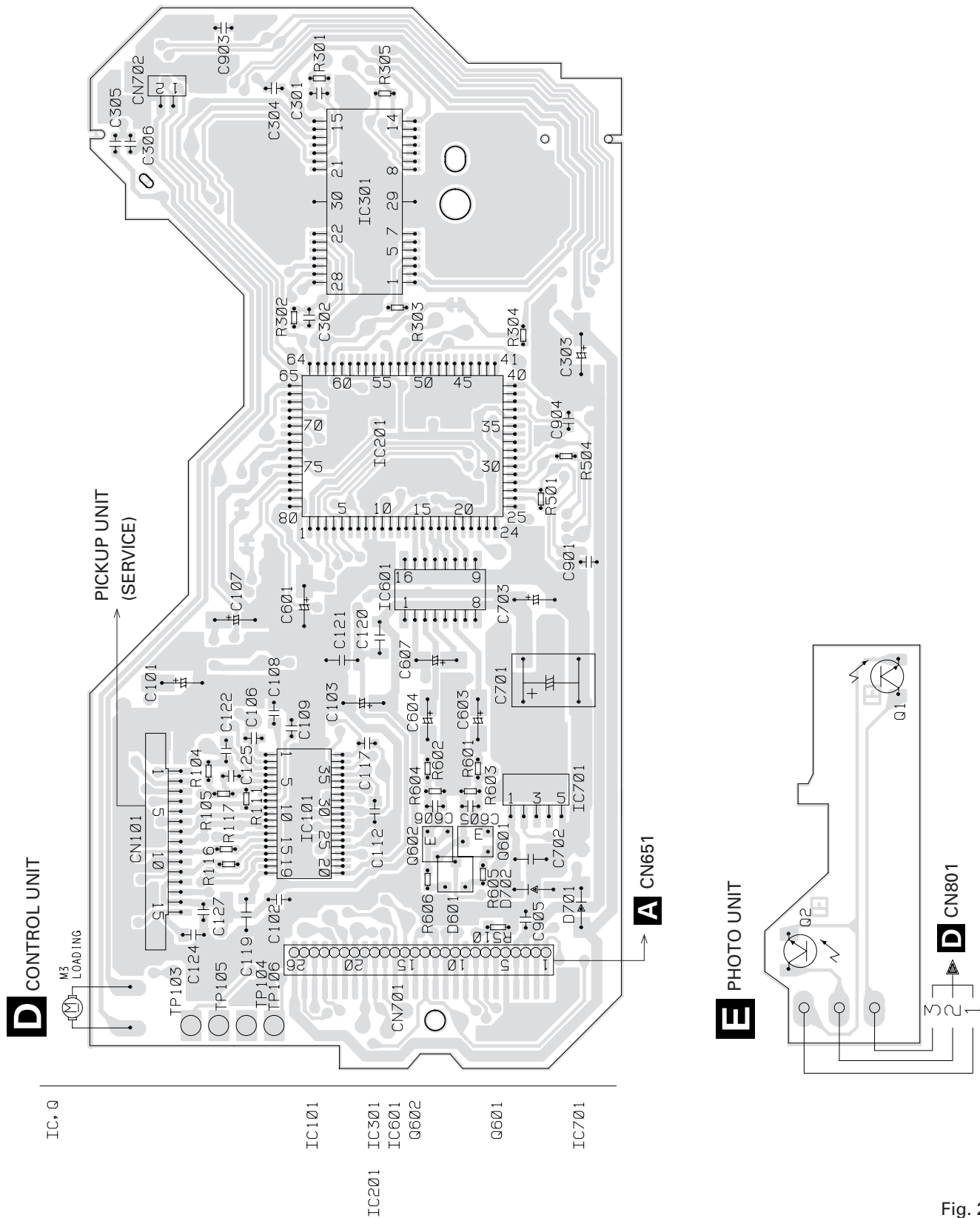


Fig. 20

IC, Q

Q101

Q102
IC502

IC501

Q603

SIDE B

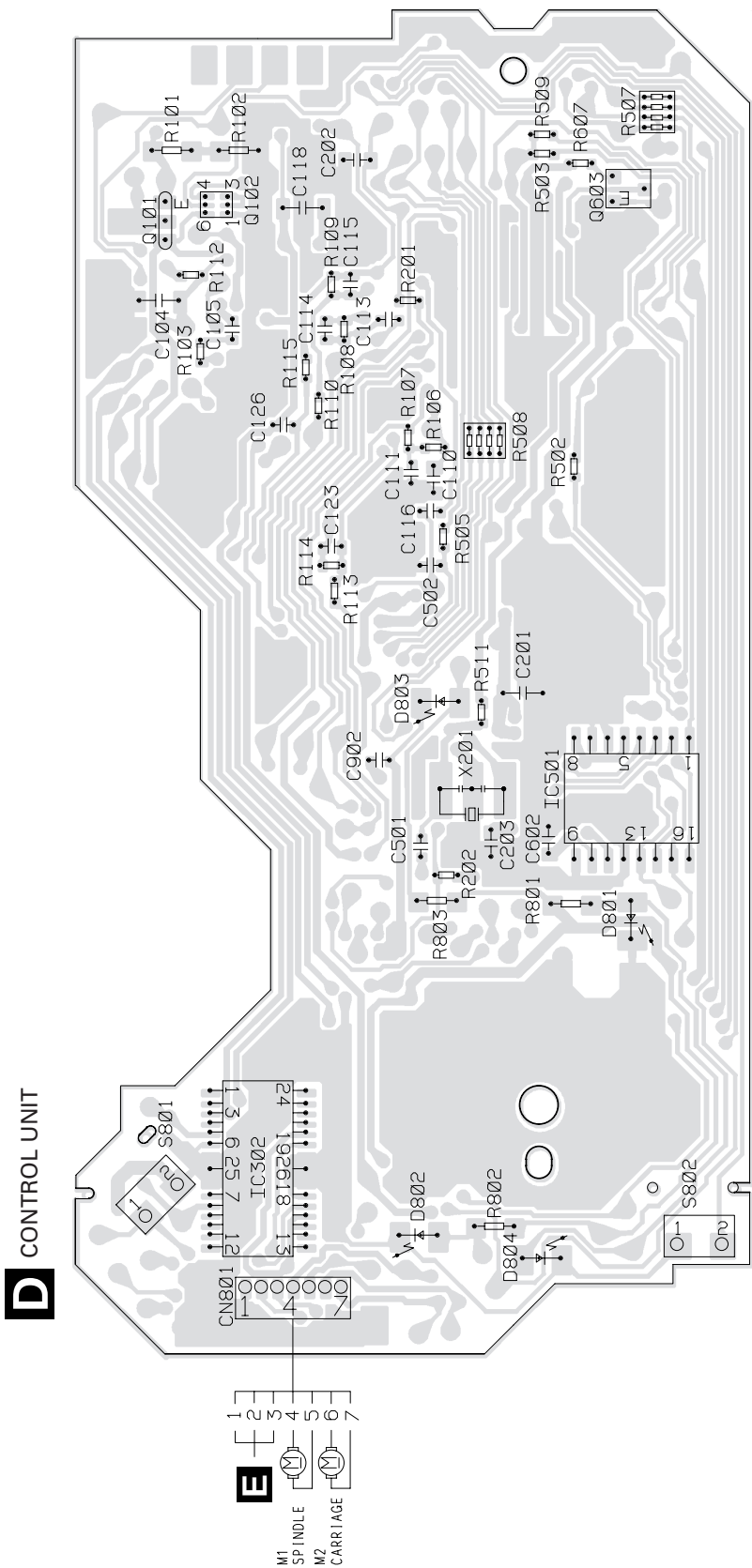


Fig. 21

4.4 KEYBOARD PCB,SWITCH PCB

SIDE A

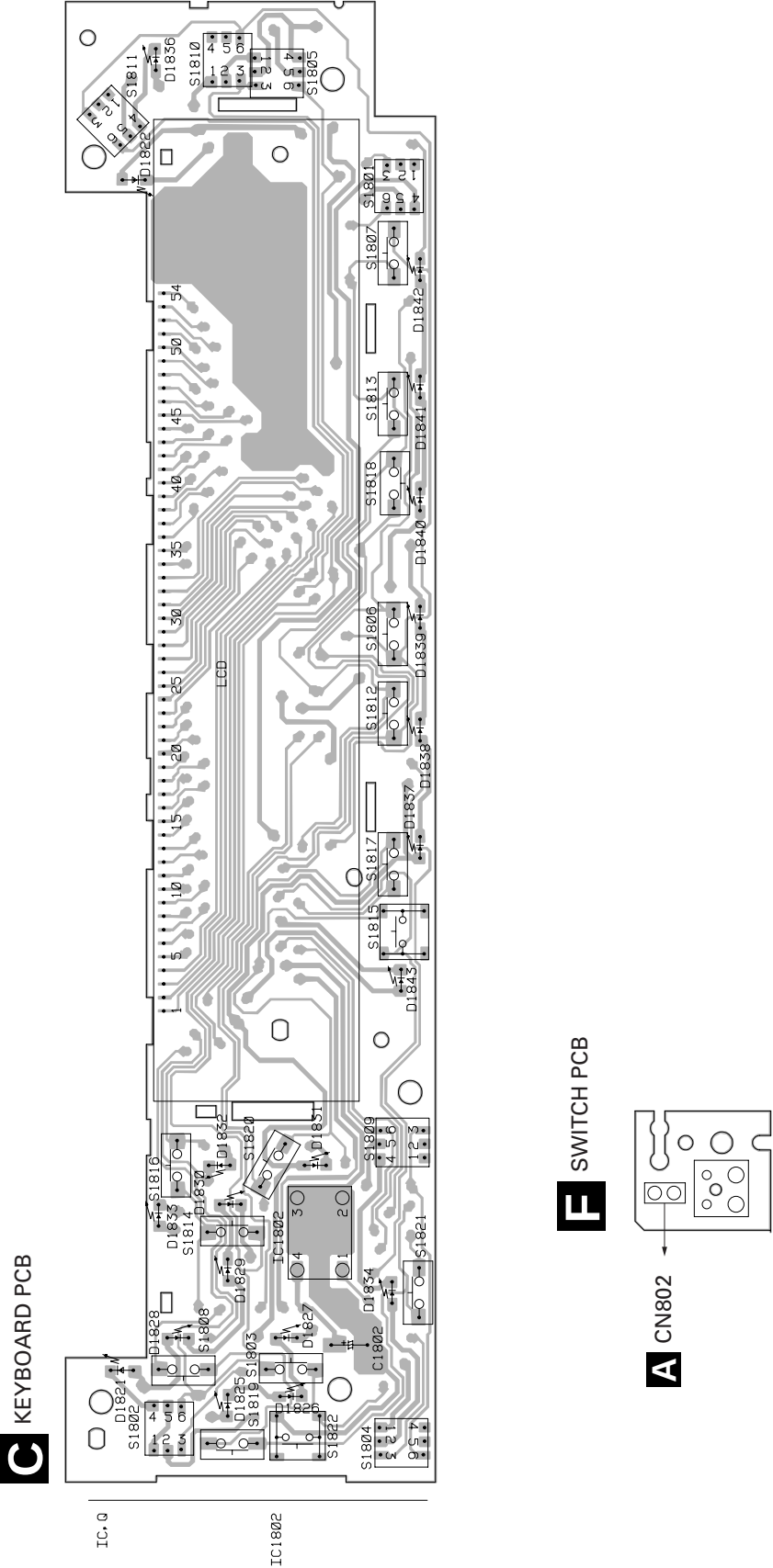


Fig. 22

SIDE B

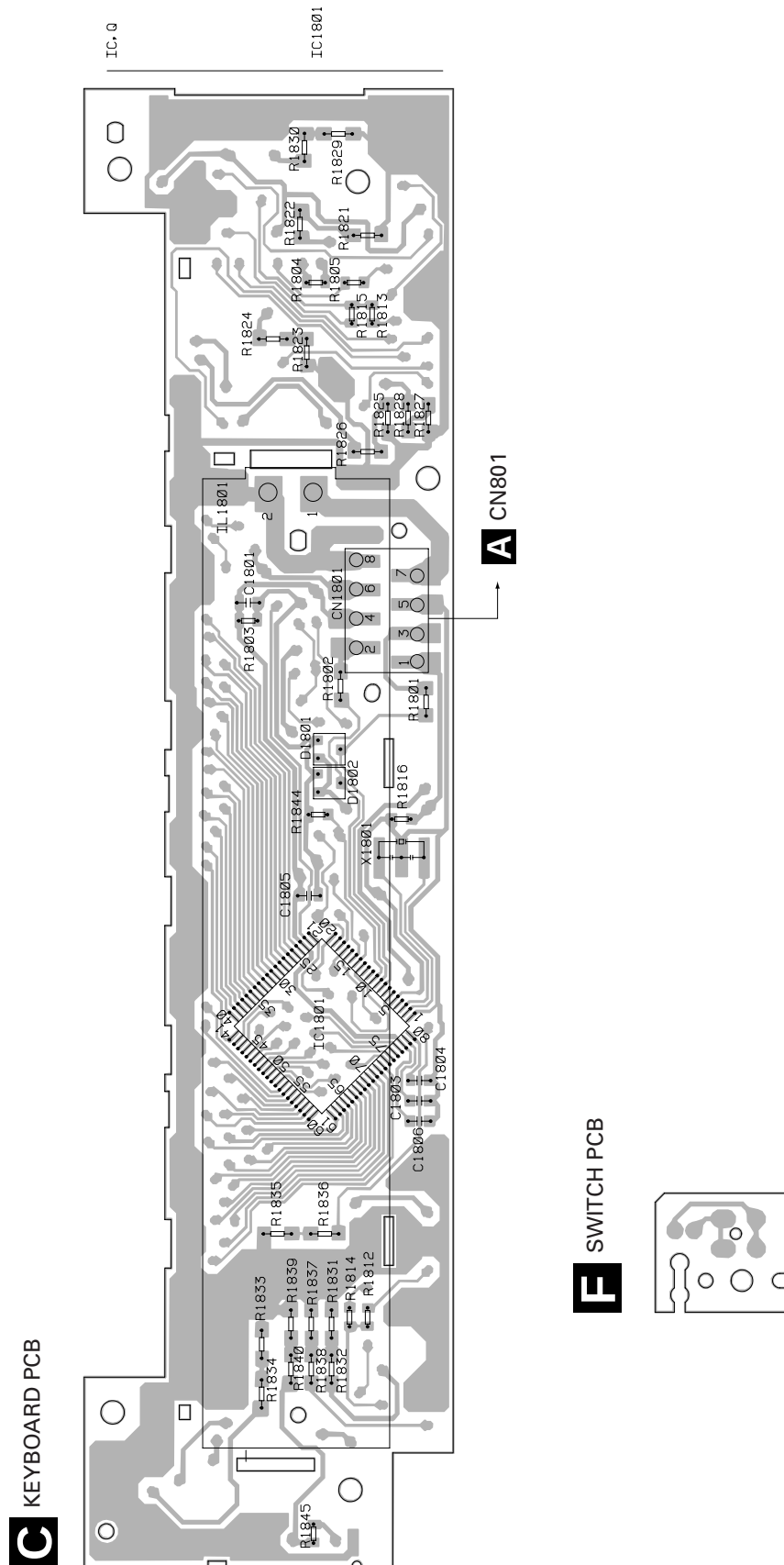


Fig. 23

5. ELECTRICAL PARTS LIST

NOTES:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/○S○○○○J,RS1/○○S○○○○J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
B Unit Number : CWE1417		R 13	RS1/16S563J
Unit Name : FM/AM Tuner Unit		R 15	RS1/16S271J
		R 16	RS1/16S104J
		R 17	RS1/16S332J
		R 18	RS1/16S332J
MISCELLANEOUS			
IC 1 IC	PA4023B		
IC 2 IC	PA4024A	R 31	RS1/16S470J
Q 1 Transistor	2SC2412KLN	R 32	RS1/16S822J
Q 2 Transistor	DTC124EU	R 33	RS1/16S822J
Q 3 FET	3SK263	R 34	RS1/16S331J
		R 35	RS1/16S331J
Q 31 Transistor	2SC2412KLN		
Q 201 FET	2SK932	R 51	RS1/16S271J
Q 202 Transistor	2SC2412KLN	R 52	RS1/16S560J
Q 203 Transistor	DTC124EU	R 55	RS1/16S102J
D 1 Diode	RD39JS	R 56	RS1/16S823J
		R 61	RS1/16S392J
D 2 Diode	RD39JS		
D 4 Diode	1SV250	R 62	RS1/16S273J
D 5 Diode	KV1410-F1	R 101	RS1/16S272J
D 6 Diode	MA157	R 102	RS1/16S682J
D 7 Diode	KV1410-F1	R 103	RS1/16S333J
		R 104	RS1/16S334J
D 8 Diode	KV1410-F1		
D 201 Diode	MA157	R 105	RS1/16S683J
D 202 Diode	MA157	R 107	RS1/16S222J
D 231 Diode	SVC253	R 151	RS1/16S222J
L 2 Coil	CTC1108	R 152	RS1/16S393J
		R 155	RS1/16S273J
L 3 Inductor	LCTB2R2K2125		
L 4 Coil	CTC1108	R 156	RS1/16S243J
L 5 Coil	CTC1107	R 157	RS1/16S203J
L 51 Ferri-Inductor	LAU150K	R 160	RS1/16S222J
L 201 Ferri-Inductor	LAU4R7K	R 161	RS1/16S563J
		R 162	RS1/16S105J
L 202 Ferri-Inductor	LAU330K		
L 203 Inductor	CTF1287	R 163	RS1/16S223J
L 208 Inductor	LAU121K	R 202	RS1/16S223J
L 231 Inductor	LCTA3R3J3225	R 203	RS1/16S225J
T 31 Coil	CTE1116	R 204	RS1/16S103J
		R 206	RS1/16S220J
T 51 Coil	CTC1136		
CF 51 Ceramic Filter	CTF1290	R 207	RS1/16S101J
CF 52 Ceramic Filter	CTF1290	R 208	RS1/16S102J
CF 53 Ceramic Filter	CTF1290	R 209	RS1/16S471J
CF 232 Ceramic Filter	CTF1348	R 214	RS1/16S822J
		R 215	RS1/16S822J
X 151 Resonator 920.5kHz	CSS1365		
X 231 Crystal Resonator 10.26MHz	CSS1111	R 217	RS1/16S102J
VR 154 Semi-fixed 150kΩ(B)	CCP1213	R 231	RS1/16S272J
		R 232	RS1/16S473J
		R 237	RS1/16S103J
		R 238	RS1/16S104J
RESISTORS			
R 1	RS1/16S225J		
R 2	RS1/16S225J	R 239	RS1/16S104J
R 4	RS1/16S154J	R 240	RS1/16S332J
R 5	RS1/16S391J	R 241	RS1/16S202J
R 6	RS1/16S223J	R 243	RS1/16S183J
		R 244	RS1/16S392J
R 7	RS1/16S123J		
R 8	RS1/16S332J	R 247	RS1/16S123J
R 9	RS1/16S473J		
R 10	RS1/16S223J		
R 11	RS1/16S124J		

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====Circuit Symbol and No.====Part Name		Part No.	====Circuit Symbol and No.====Part Name		Part No.	
R	505	RS1/16S102J		Unit Number : CWM5620		
R	507	RA3C102J		Unit Name : Tuner Amp Unit(DEH-P645/UC)		
R	508	RA4C681J				
R	601	RS1/16S102J		MISCELLANEOUS		
R	602	RS1/16S102J	IC	101	IC	TA2050S
			IC	102	IC	CA0008AM
R	603	RS1/16S223J	IC	151	IC	SN761027DL
R	604	RS1/8S751J	IC	201	IC	TDA7386
R	801	RS1/8S751J	IC	501	IC	PM2006A
R	802	RS1/8S751J				
CAPACITORS			IC	601	IC	PD4884A
C	101	CEV101M6R3	IC	701	IC	PD6194A
C	102	CKSQYB104K16	IC	702	IC	PD8033A
C	103	CEV470M6R3	IC	941	IC	S-80730ANDT
C	104	CKSYB334K16	Q	101	Chip Transistor	2SA1162
C	105	CCSRCH330J50	Q	102	Transistor	DTC124EK
			Q	201	Transistor	DTC144EK
C	106	CKSRYB103K25	Q	251	Transistor	IMH3A
C	107	CEV4R7M35	Q	253	Transistor	IMD2A
C	108	CKSQYB273K50	Q	254	Transistor	IMH3A
C	109	CCSRCH101J50				
C	110	CKSQYB104K16	Q	301	Transistor	DTA124EK
			Q	302	Transistor	IMH3A
C	111	CKSRYB332K50	Q	501	Transistor	2SC2712
C	112	CKSQYB473K16	Q	601	Transistor	DTA114EK
C	113	CKSRYB103K25	Q	602	Transistor	DTC114EK
C	114	CKSRYB391K50				
C	115	CCSRCH121J50	Q	801	Chip Transistor	2SA1162
			Q	802	Transistor	2SD1760F5
C	116	CKSRYB682K25	Q	803	Transistor	DTC114EK
C	117	CKSRYB333K16	Q	804	Transistor	DTA143EK
C	118	CKSYB334K16	Q	805	Transistor	DTC114EK
C	119	CKSYB334K16				
C	120	CKSYB334K16	Q	806	Transistor	2SC2712
			Q	807	Transistor	2SB1238
C	121	CKSYB334K16	Q	808	Transistor	DTC123EK
C	122	CKSQYB104K16	Q	809	Transistor	2SD1864
C	123	CKSRYB472K50	Q	851	Chip Transistor	2SA1162
C	124	CKSQYB104K16				
C	125	CCSRCH6R0D50	Q	852	Transistor	DTC124EK
			Q	853	Transistor	2SC2412K
C	126	CKSRYB153K25	Q	911	Transistor	2SD1760F5
C	127	CCSRCH102J25	Q	912	Transistor	IMD2A
C	201	CKSYB334K16	Q	913	Transistor	DTA114EK
C	202	CKSQYB104K16				
C	203	CKSQYB104K16	Q	921	Transistor	IMX1
			Q	922	Transistor	DTC114EK
C	303	CEV470M16	Q	923	Transistor	2SC2712
C	304	CKSRYB103K25	Q	931	Transistor	2SB1243
C	305	CKSRYB103K25	Q	932	Transistor	DTC114EK
C	306	CKSRYB103K25				
C	307	CEV100M25	Q	941	Transistor	DTA144TK
			Q	951	Transistor	2SD2396
C	502	CKSRYB471K50	Q	952	Transistor	2SB1243
C	601	CEV101M6R3	Q	953	Transistor	DTC124EK
C	602	CKSQYB104K16	Q	954	Transistor	2SA1674
C	603	CEV4R7M35				
C	604	CEV4R7M35	Q	955	Transistor	2SA1674
			Q	956	Transistor	IMH1A
C	605	CKSRYB152K50	Q	957	Transistor	2SC2712
C	606	CKSRYB152K50	Q	971	Transistor	2SD2396
C	607	CEV220M6R3	Q	972	Transistor	IMD2A
C	701	CCH1300				
C	702	CKSYB334K16	D	201	Diode	DAN202K
			D	251	Diode	1S5133
C	703	CEV101M6R3	D	501	Diode	MA152WK
C	901	CCSRCH471J50	D	801	Diode	DA204K
C	902	CCSRCH271J50	D	802	Diode	DA204K
C	903	CCSRCH471J50				
C	904	CCSRCH101J50	D	803	Diode	DA204K
			D	804	Diode	MA3062(M)
			D	805	Diode	MA3075(L)
			D	806	Diode	MA3039(H)
			D	851	LED	BR4361F

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
D 901 Diode	ERA15-02VH	R 203	RS1/10S103J
D 902 Diode	ERA15-02VH	R 204	RS1/10S103J
D 911 Diode	ERA15-02VH	R 251	RS1/10S821J
D 912 Diode	HZS6L(B1)	R 252	RS1/10S821J
D 921 Diode	HZS7L(C3)	R 255	RS1/10S223J
D 922 Diode	ERA15-02VH	R 256	RS1/10S223J
D 923 Diode	HZS7L(A1)	R 259	RS1/10S681J
D 931 Diode	ERA15-02VH	R 260	RS1/10S681J
D 932 Diode	ERA15-02VH	R 261	RS1/10S0R0J
D 933 Diode	ERA15-02VH	R 262	RS1/10S0R0J
D 934 Diode	ERA15-02VH	R 265	RS1/10S223J
D 951 Diode	HZS9L(B3)	R 266	RS1/10S223J
D 952 Diode	HZS9L(A2)	R 268	RS1/10S0R0J
D 953 Diode	1SS133	R 269	RS1/10S0R0J
D 971 Diode	HZS9L(B1)	R 301	RS1/10S151J
L 101 Inductor	LAU3R3J	R 302	RS1/10S151J
L 501 Ferri-Inductor	LAU2R2K	R 303	RS1/10S104J
L 502 Ferri-Inductor	LAU2R2K	R 304	RS1/10S104J
L 503 Ferri-Inductor	LAU2R2K	R 351	RS1/10S0R0J
L 601 Inductor	LAU100K	R 352	RS1/10S0R0J
L 602 Ferri-Inductor	LAU2R2K	R 353	RS1/10S0R0J
L 603 Ferri-Inductor	LAU2R2K	R 354	RS1/10S0R0J
L 701 Inductor	LAU100K	R 501	RS1/10S0R0J
L 702 Ferri-Inductor	LAU2R2K	R 502	RS1/10S222J
L 801 Ferri-Inductor	LAU2R2K	R 503	RS1/10S222J
L 802 Transformer	MTX9006	R 504	RS1/10S102J
TH 601 Thermistor	CCX1037	R 505	RS1/10S222J
X 501 Crystal Resonator 7.200MHz	CSS1379	R 506	RS1/10S152J
X 601 Resonator 12.58291MHz	CSS1402	R 507	RS1/10S472J
X 701 Resonator 4.332MHz	CSS1338	R 508	RS1/10S472J
S 941 Switch	CSG1046	R 509	RS1/10S472J
FM/AM Tuner Unit	CWE1417	R 510	RS1/10S182J
BZ 601 Buzzer	CPV1011	R 511	RS1/10S103J
		R 513	RS1/10S0R0J
RESISTORS		R 514	RS1/10S392J
R 101	RS1/10S620J	R 515	RS1/10S392J
R 102	RS1/10S101J	R 516	RS1/10S152J
R 103	RS1/10S101J	R 517	RS1/10S102J
R 104	RS1/10S222J	R 518	RS1/10S102J
R 105	RS1/10S122J	R 519	RS1/10S102J
R 106	RS1/10S122J	R 520	RS1/10S103J
R 107	RS1/10S181J	R 522	RS1/10S562J
R 108	RS1/10S181J	R 523	RS1/10S472J
R 109	RS1/10S153J	R 526	RS1/10S0R0J
R 110	RS1/10S153J	R 528	RS1/10S0R0J
R 111	RS1/10S222J	R 601	RS1/10S102J
R 112	RS1/10S222J	R 602	RS1/10S473J
R 113	RS1/10S102J	R 604	RS1/10S473J
R 114	RS1/10S102J	R 605	RS1/10S473J
R 115	RS1/10S473J	R 606	RS1/10S473J
R 116	RS1/10S473J	R 607	RS1/10S473J
R 117	RS1/10S332J	R 608	RS1/10S473J
R 118	RS1/10S682J	R 609	RS1/10S473J
R 119	RS1/10S103J	R 610	RS1/10S222J
R 133	RS1/10S162J	R 611	RS1/10S222J
R 134	RS1/10S162J	R 612	RS1/10S222J
R 141	RS1/10S0R0J	R 613	RS1/10S393J
R 142	RS1/10S0R0J	R 614	RS1/10S473J
R 151	RS1/10S272J	R 615	RN1/10SE2002D
R 152	RS1/10S272J	R 616	RS1/10S473J
R 153	RS1/10S151J	R 617	RS1/10S473J
R 154	RS1/10S151J	R 618	RS1/10S473J
R 155	RS1/10S102J	R 620	RS1/10S0R0J
R 201	RS1/10S103J	R 621	RS1/10S202J
R 202	RS1/10S331J	R 622	RS1/10S102J

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
R 623	RS1/10S473J	R 921	RS1/10S103J
R 624	RS1/10S473J	R 922	RS1/10S473J
R 625	RS1/10S681J	R 923	RS1/10S103J
R 626	RS1/10S102J	R 924	RS1/10S103J
R 627	RA3C681J	R 925	RS1/10S473J
R 630	RS1/10S473J	R 926	RS1/10S472J
R 631	RS1/10S473J	R 927	RS1/10S224J
R 632	RS1/10S393J	R 933	RS1/10S472J
R 633	RS1/10S0R0J	R 934	RD1/4PU272J
R 634	RS1/10S0R0J	R 941	RS1/10S102J
R 636	RS1/10S473J	R 942	RS1/10S822J
R 637	RS1/10S473J	R 943	RS1/8S471J
R 638	RS1/8S473J	R 946	RS1/10S473J
R 639	RS1/10S473J	R 951	RD1/4PU221J
R 651	RS1/10S681J	R 952	RD1/4PU511J
R 652	RS1/10S681J	R 953	RS1/10S1R0J
R 653	RS1/10S681J	R 954	RD1/4PU331J
R 654	RS1/10S681J	R 955	RD1/4PU331J
R 701	RS1/10S105J	R 956	RS1/10S472J
R 702	RS1/10S0R0J	R 957	RD1/4PU102J
R 703	RS1/10S681J	R 958	RS1/10S472J
R 704	RS1/10S681J	R 959	RD1/4PU102J
R 705	RS1/10S681J	R 960	RS1/10S472J
R 706	RS1/10S473J	R 961	RS1/10S103J
R 707	RS1/10S681J	R 962	RS1/10S473J
R 708	RS1/10S681J	R 963	RS1/10S473J
R 709	RS1/10S681J	R 971	RD1/4PU221J
R 710	RS1/10S473J	R 972	RS1/10S221J
R 711	RS1/10S473J	R 973	RS1/10S472J
R 715	RA3C473J	R 974	RS1/10S222J
R 717	RS1/10S473J	CAPACITORS	
R 718	RS1/10S473J	C 101	CEJA1R0M50
R 719	RA3C473J	C 102	CEJA1R0M50
R 722	RA3C473J	C 103	CEJA1R0M50
R 753	RS1/10S473J	C 104	CEJA1R0M50
R 801	RS1/8S222J	C 105	CEJA100M16
R 802	RS1/8S222J		
R 803	RS1/8S222J	C 106	CKSQYB104K25
R 804	RS1/10S132J	C 107	CKSQYB473K25
R 805	RS1/10S822J	C 108	CKSQYB473K25
		C 131	CEJA2R2M50
R 806	RS2PMF100J	C 132	CEJA2R2M50
R 807	RD1/4PU471J		
R 808	RS1/10S223J	C 133	CKSQYB473K16
R 809	RS1/10S682J	C 134	CKSQYB473K16
R 810	RS1/10S103J	C 135	CEJA4R7M35
		C 136	CEJA4R7M35
R 811	RS1/10S224J	C 137	CEJA2R2M50
R 812	RS1/10S104J		
R 813	RS2PMF220J	C 138	CEJA2R2M50
R 814	RS1/10S222J	C 151	CKSQYB473K25
R 815	RD1/4PU152J	C 152	CEJA470M10
		C 153	CEJANP100M16
R 851	RS1/8S471J	C 154	CEJANP100M16
R 852	RS1/10S473J		
R 853	RS1/10S223J	C 155	CKSQYB822K50
R 854	RS1/10S223J	C 156	CKSQYB822K50
R 855	RS1/10S103J	C 157	CEJA1R0M50
		C 158	CEJA1R0M50
R 856	RS1/10S223J	C 159	CKSQYB183K50
R 857	RS1/10S272J		
R 858	RS1/8S102J	C 160	CKSQYB183K50
R 866	RS1/10S473J	C 161	CKSQYB102K50
R 867	RS1/10S473J	C 162	CKSQYB102K50
		C 163	CEJANP2R2M35
R 869	RS1/10S103J	C 164	CEJANP2R2M35
R 870	RS1/10S102J		
R 911	RS1/10S752J	C 165	CKSQYB333K25
R 912	RS1/10S101J	C 166	CKSQYB333K25
R 913	RS1/10S392J	C 167	CEJA220M16
		C 168	CEJA2R2M50
		C 169	CKSQYB104K25

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DEH-P645,P56,P545,46,445,41

====Circuit Symbol and No.==Part Name			Part No.	====Circuit Symbol and No.==Part Name			Part No.
Q	931	Transistor	2SB1243	R	111		RS1/10S222J
Q	932	Transistor	DTC114EK	R	112		RS1/10S222J
Q	941	Transistor	DTA144TK	R	113		RS1/10S102J
Q	951	Transistor	2SD2396	R	114		RS1/10S102J
Q	952	Transistor	2SB1243	R	115		RS1/10S473J
Q	953	Transistor	DTC124EK	R	116		RS1/10S473J
Q	954	Transistor	2SA1674	R	117		RS1/10S332J
Q	955	Transistor	2SA1674	R	118		RS1/10S682J
Q	956	Transistor	IMH1A	R	119		RS1/10S103J
Q	957	Transistor	2SC2712	R	133		RS1/10S162J
Q	971	Transistor	2SD2396	R	134		RS1/10S162J
Q	972	Transistor	IMD2A	R	141		RS1/10S0R0J
D	201	Diode	DAN202K	R	142		RS1/10S0R0J
D	251	Diode	1SS133	R	151		RS1/10S272J
D	252	Diode	1SS133	R	152		RS1/10S272J
D	321	Diode	HZS7L(C2)	R	153		RS1/10S151J
D	501	Diode	MA152WK	R	154		RS1/10S151J
D	801	Diode	DA204K	R	155		RS1/10S102J
D	802	Diode	DA204K	R	201		RS1/10S103J
D	803	Diode	DA204K	R	202		RS1/10S331J
D	804	Diode	MA3062(M)	R	203		RS1/10S103J
D	805	Diode	MA3075(L)	R	204		RS1/10S103J
D	806	Diode	MA3039(H)	R	251		RS1/10S821J
D	851	LED	BR4361F	R	252		RS1/10S821J
D	852	Diode	ERA15-02VH	R	253		RS1/10S681J
D	853	Diode	ERA15-02VH	R	254		RS1/10S681J
D	901	Diode	ERA15-02VH	R	255		RS1/10S223J
D	902	Diode	ERA15-02VH	R	256		RS1/10S223J
D	911	Diode	ERA15-02VH	R	257		RS1/10S223J
D	912	Diode	HZS6L(B1)	R	258		RS1/10S223J
D	921	Diode	HZS7L(C3)	R	260		RS1/10S821J
D	922	Diode	ERA15-02VH	R	261		RS1/10S0R0J
D	923	Diode	HZS7L(A1)	R	262		RS1/10S0R0J
D	931	Diode	ERA15-02VH	R	263		RS1/10S0R0J
D	932	Diode	ERA15-02VH	R	264		RS1/10S0R0J
D	933	Diode	ERA15-02VH	R	266		RS1/10S223J
D	934	Diode	ERA15-02VH	R	267		RS1/10S0R0J
D	951	Diode	HZS9L(B3)	R	271		RS1/10S183J
D	952	Diode	HZS9L(A2)	R	272		RS1/10S183J
D	953	Diode	1SS133	R	273		RS1/10S103J
D	971	Diode	HZS9L(B1)	R	274		RS1/10S243J
L	101	Inductor	LAU3R3J	R	275		RS1/10S683J
L	501	Ferri-Inductor	LAU2R2K	R	277		RS1/10S103J
L	502	Ferri-Inductor	LAU2R2K	R	278		RS1/10S103J
L	503	Ferri-Inductor	LAU2R2K	R	279		RS1/10S104J
L	601	Inductor	LAU100K	R	280		RS1/10S104J
L	602	Ferri-Inductor	LAU2R2K	R	281		RS1/10S104J
L	603	Ferri-Inductor	LAU2R2K	R	282		RS1/10S104J
L	801	Ferri-Inductor	LAU2R2K	R	283		RS1/10S104J
L	802	Transformer	MTX9006	R	284		RS1/10S104J
TH	601	Thermistor	CCX1037	R	285		RS1/10S105J
X	501	Crystal Resonator 7.200MHz	CSS1379	R	287		RS1/10S473J
X	601	Resonator 15.58291MHz	CSS1402	R	288		RS1/10S473J
S	941	Switch	CSG1046	R	301		RS1/10S151J
		FM/AM Tuner Unit	CWE1417	R	302		RS1/10S151J
BZ	601	Buzzer	CPV1011	R	303		RS1/10S104J
				R	304		RS1/10S104J
RESISTORS				R	351		RS1/10S0R0J
R	101		RS1/10S620J	R	352		RS1/10S0R0J
R	102		RS1/10S101J	R	353		RS1/10S0R0J
R	103		RS1/10S101J	R	354		RS1/10S0R0J
R	104		RS1/10S222J	R	363		RS1/10S330J
R	105		RS1/10S122J	R	501		RS1/10S0R0J
R	106		RS1/10S122J	R	502		RS1/10S222J
R	107		RS1/10S181J	R	503		RS1/10S222J
R	108		RS1/10S181J				
R	109		RS1/10S153J				
R	110		RS1/10S153J				

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
R 504	RS1/10S102J	R 808	RS1/10S223J
R 505	RS1/10S222J	R 809	RS1/10S682J
R 506	RS1/10S152J	R 810	RS1/10S103J
R 507	RS1/10S472J	R 811	RS1/10S224J
R 508	RS1/10S472J	R 812	RS1/10S104J
R 509	RS1/10S472J	R 813	RS2PMF220J
R 510	RS1/10S182J	R 814	RS1/10S222J
R 511	RS1/10S103J	R 815	RD1/4PU152J
R 513	RS1/10S0R0J	R 851	RS1/8S471J
R 514	RS1/10S392J	R 852	RS1/10S473J
R 515	RS1/10S392J	R 853	RS1/10S223J
R 516	RS1/10S152J	R 854	RS1/10S223J
R 517	RS1/10S102J	R 855	RS1/10S103J
R 518	RS1/10S102J	R 856	RS1/10S223J
R 519	RS1/10S102J	R 857	RS1/10S272J
R 520	RS1/10S103J	R 858	RS1/8S102J
R 522	RS1/10S562J	R 859	RS1/10S223J
R 523	RS1/10S472J	R 860	RS1/10S272J
R 526	RS1/10S0R0J	R 861	RS1/10S223J
R 528	RS1/10S0R0J	R 862	RS1/10S272J
R 601	RS1/10S102J	R 863	RS1/10S103J
R 602	RS1/10S473J	R 864	RS1/8S102J
R 604	RS1/10S473J	R 865	RS1/8S102J
R 605	RS1/10S473J	R 866	RS1/10S473J
R 606	RS1/10S473J	R 867	RS1/10S473J
R 607	RS1/10S473J	R 868	RS1/10S103J
R 608	RS1/10S473J	R 869	RS1/10S103J
R 609	RS1/10S473J	R 870	RS1/10S102J
R 610	RS1/10S222J	R 911	RS1/10S752J
R 611	RS1/10S222J	R 912	RS1/10S101J
R 612	RS1/10S222J	R 913	RS1/10S392J
R 613	RS1/10S393J	R 921	RS1/10S103J
R 614	RS1/10S473J	R 922	RS1/10S473J
R 615	RN1/10SE2002D	R 923	RS1/10S103J
R 616	RS1/10S473J	R 924	RS1/10S103J
R 617	RS1/10S473J	R 925	RS1/10S473J
R 618	RS1/10S473J	R 926	RS1/10S472J
R 619	RS1/10S153J	R 927	RS1/10S224J
R 620	RS1/10S333J	R 933	RS1/10S472J
R 621	RS1/10S202J	R 934	RD1/4PU272J
R 622	RS1/10S102J	R 941	RS1/10S102J
R 623	RS1/10S473J	R 942	RS1/10S822J
R 624	RS1/10S473J	R 943	RS1/8S471J
R 625	RS1/10S681J	R 946	RS1/10S473J
R 626	RS1/10S102J	R 951	RD1/4PU221J
R 627	RA3C681J	R 952	RD1/4PU511J
R 630	RS1/10S473J	R 953	RS1/10S1R0J
R 631	RS1/10S473J	R 954	RD1/4PU331J
R 632	RS1/10S393J	R 955	RD1/4PU331J
R 633	RS1/10S0R0J	R 956	RS1/10S472J
R 634	RS1/10S0R0J	R 957	RD1/4PU102J
R 636	RS1/10S473J	R 958	RS1/10S472J
R 639	RS1/10S473J	R 959	RD1/4PU102J
R 651	RS1/10S681J	R 960	RS1/10S472J
R 652	RS1/10S681J	R 961	RS1/10S103J
R 653	RS1/10S681J	R 962	RS1/10S473J
R 654	RS1/10S681J	R 963	RS1/10S473J
R 753	RS1/10S473J	R 971	RD1/4PU221J
R 801	RS1/8S222J	R 972	RS1/10S221J
R 802	RS1/8S222J	R 973	RS1/10S472J
R 803	RS1/8S222J	R 974	RS1/10S222J
R 804	RS1/10S132J		
R 805	RS1/10S822J	CAPACITORS	
R 806	RS2PMF100J	C 101	CEJA1R0M50
R 807	RD1/4PU471J	C 102	CEJA1R0M50
		C 103	CEJA1R0M50
		C 104	CEJA1R0M50
		C 105	CEJA100M16

DEH-P645,P56,P545,46,445,41

====Circuit Symbol and No.====Part Name	Part No.	====Circuit Symbol and No.====Part Name	Part No.
C 106	CKSQYB104K25	C 301	CEJA100M16
C 107	CKSQYB473K25	C 302	CEJA100M16
C 108	CKSQYB473K25	C 362	CKSQYB103K50
C 131	CEJA2R2M50	C 501	CCSQCH150K50
C 132	CEJA2R2M50	C 502	CCSQCH150K50
C 133	CKSQYB473K16	C 503	CKSQYB103K50
C 134	CKSQYB473K16	C 504	CKSQYB103K50
C 135	CEJA4R7M35	C 505	CCSQCH101K50
C 136	CEJA4R7M35	C 506	CKSQYB103K50
C 137	CEJA2R2M50	C 507	CKSQYB103K50
C 138	CEJA2R2M50	C 508	CKSQYB102K50
C 151	CKSQYB473K25	C 509	CEJA220M10
C 152	CEJA470M10	C 512	CKSQYB223K50
C 153	CEJANP100M16	C 514	CKSQYB473K16
C 154	CEJANP100M16	C 515	CEJA220M6R3
C 155	CKSQYB822K50	C 516	CKSQYB103K50
C 156	CKSQYB822K50	C 517	CEJA220M6R3
C 157	CEJA1R0M50	C 518	CKSQYB103K50
C 158	CEJA1R0M50	C 522	CKSQYB103K50
C 159	CKSQYB183K50	C 523	CKLSR473K16
C 160	CKSQYB183K50	C 525	4.7μF/16V
C 161	CKSQYB102K50	C 526	CCH1250
C 162	CKSQYB102K50	C 529	CKSQYB103K50
C 163	CEJANP2R2M35	C 530	CCSQCH101K50
C 164	CEJANP2R2M35	C 532	CKSQYB223K50
C 165	CKSQYB333K25	C 533	CKSQYB473K16
C 166	CKSQYB333K25	C 534	CKSYB154K25
C 167	CEJA220M16	C 601	CCSQCH101K50
C 168	CEJA2R2M50	C 602	CCSQCH200J50
C 169	CKSQYB104K25	C 603	CCSQCH200J50
C 170	CCSQCH101K50	C 604	CEJA4R7M35
C 201	CKSQYB224K16	C 605	CCSQCH101J50
C 202	CKSQYB224K16	C 606	CCSQCH101J50
C 203	CKSQYB224K16	C 607	CCSQCH101K50
C 204	CKSQYB224K16	C 608	CCSQCH101K50
C 205	CEJA1R0M50	C 651	CCSQCH821J50
C 206	CCH1150	C 652	CCSQCH821J50
C 207	CKSQYB473K50	C 653	CCSQCH101J50
C 208	CEJA100M16	C 802	CKSQYB104K25
C 209	CEJA1R0M50	C 803	CEJA100M16
C 210	CEJA330M16	C 804	CKSQYB103K50
C 251	CEJA4R7M35	C 805	CEJA100M16
C 252	CEJA4R7M35	C 806	CKSQYB103K50
C 253	CEJA4R7M35	C 807	CKSQYB333K25
C 254	CEJA4R7M35	C 808	CKSQYB333K25
C 255	CKSQYB221K50	C 851	CKSQYB473K50
C 256	CKSQYB221K50	C 853	CKSQYB103K50
C 257	CKSQYB221K50	C 854	CKSQYB103K50
C 258	CKSQYB221K50	C 855	CKSQYB103K50
C 271	CEJA220M10	C 856	CKSQYB473K25
C 272	CEJA101M10	C 911	CKSQYB103K50
C 273	CKSQYB472K50	C 912	CEJA470M10
C 274	CEJA4R7M35	C 913	CKSQYB472K50
C 275	CEJANP220M10	C 914	CCH1312
C 276	CKSQYB222K50	C 921	CKSYB105K16
C 277	CKSQYB183K50	C 922	CKSQYB102K50
C 278	CKSQYB473K25	C 941	CEJA2R2M50
C 279	CKSQYB273K25	C 942	CKSQYB102K50
C 280	CKSQYB103K50	C 951	CKSQYB103K50
C 281	CKSQYB223K50	C 952	CEJA101M10
C 282	CKSQYB153K50	C 953	330μF/10V
C 284	CEJA4R7M35	C 971	CCH1181
C 287	CKSQYB473K25	C 972	CKSQYB473K25
C 288	CKSQYB473K16	C 973	CKSQYB102K50
C 289	CKSQYB103K50		CEJA101M10

====Circuit Symbol and No.====Part Name	Part No.	====Circuit Symbol and No.====Part Name	Part No.
A Unit Number : CWM5626		D 911 Diode	ERA15-02VH
Unit Name : Tuner Amp Unit(DEH-P545/UC)		D 912 Diode	HZS6L(B1)
MISCELLANEOUS		D 921 Diode	HZS7L(C3)
IC 101 IC	TA2050S	D 922 Diode	ERA15-02VH
IC 102 IC	CA0008AM	D 923 Diode	HZS7L(A1)
IC 151 IC	SN761027DL	D 931 Diode	ERA15-02VH
IC 201 IC	TDA7386	D 932 Diode	ERA15-02VH
IC 501 IC	PM2006A	D 933 Diode	ERA15-02VH
		D 934 Diode	ERA15-02VH
		D 951 Diode	HZS9L(B3)
IC 601 IC	PD4886A	D 952 Diode	HZS9L(A2)
IC 941 IC	S-80730ANDT	D 953 Diode	1SS133
Q 101 Chip Transistor	2SA1162	D 971 Diode	HZS9L(B1)
Q 102 Transistor	DTC124EK	L 101 Inductor	LAU3R3J
Q 201 Transistor	DTC144EK	L 501 Ferri-Inductor	LAU2R2K
Q 251 Transistor	IMH3A	L 502 Ferri-Inductor	LAU2R2K
Q 253 Transistor	IMD2A	L 503 Ferri-Inductor	LAU2R2K
Q 254 Transistor	IMH3A	L 601 Inductor	LAU100K
Q 301 Transistor	DTA124EK	L 602 Ferri-Inductor	LAU2R2K
Q 302 Transistor	IMH3A	L 603 Ferri-Inductor	LAU2R2K
Q 501 Transistor	2SC2712	L 801 Ferri-Inductor	LAU2R2K
Q 601 Transistor	DTA114EK	L 802 Transformer	MTX9006
Q 602 Transistor	DTC114EK	TH 601 Thermistor	CCX1037
Q 801 Chip Transistor	2SA1162	X 501 Crystal Resonator 7.200MHz	CSS1379
Q 802 Transistor	2SD1760F5	X 601 Resonator 15.58291MHz	CSS1402
Q 803 Transistor	DTC114EK	S 941 Switch	CSG1046
Q 804 Transistor	DTA143EK	FM/AM Tuner Unit	CWE1417
Q 805 Transistor	DTC114EK	BZ 601 Buzzer	CPV1011
Q 806 Transistor	2SC2712		
Q 807 Transistor	2SB1238	RESISTORS	
Q 808 Transistor	DTC123EK	R 101	RS1/10S620J
Q 809 Transistor	2SD1864	R 102	RS1/10S101J
Q 851 Chip Transistor	2SA1162	R 103	RS1/10S101J
Q 852 Transistor	DTC124EK	R 104	RS1/10S222J
Q 853 Transistor	2SC2412K	R 105	RS1/10S122J
Q 911 Transistor	2SD1760F5	R 106	RS1/10S122J
Q 912 Transistor	IMD2A	R 107	RS1/10S181J
Q 913 Transistor	DTA114EK	R 108	RS1/10S181J
Q 921 Transistor	IMX1	R 109	RS1/10S153J
Q 922 Transistor	DTC114EK	R 110	RS1/10S153J
Q 923 Transistor	2SC2712	R 111	RS1/10S222J
Q 931 Transistor	2SB1243	R 112	RS1/10S222J
Q 932 Transistor	DTC114EK	R 113	RS1/10S102J
Q 941 Transistor	DTA144TK	R 114	RS1/10S102J
Q 951 Transistor	2SD2396	R 115	RS1/10S473J
Q 952 Transistor	2SB1243	R 116	RS1/10S473J
Q 953 Transistor	DTC124EK	R 117	RS1/10S332J
Q 954 Transistor	2SA1674	R 118	RS1/10S682J
Q 955 Transistor	2SA1674	R 119	RS1/10S103J
Q 956 Transistor	IMH1A	R 133	RS1/10S162J
Q 957 Transistor	2SC2712	R 134	RS1/10S162J
Q 971 Transistor	2SD2396	R 141	RS1/10S0R0J
Q 972 Transistor	IMD2A	R 142	RS1/10S0R0J
D 201 Diode	DAN202K	R 151	RS1/10S272J
D 251 Diode	1SS133	R 152	RS1/10S272J
D 501 Diode	MA152WK	R 153	RS1/10S151J
D 801 Diode	DA204K	R 154	RS1/10S151J
D 802 Diode	DA204K	R 155	RS1/10S102J
D 803 Diode	DA204K	R 201	RS1/10S103J
D 804 Diode	MA3062(M)	R 202	RS1/10S331J
D 805 Diode	MA3075(L)	R 203	RS1/10S103J
D 806 Diode	MA3039(H)	R 204	RS1/10S103J
D 851 LED	BR4361F	R 251	RS1/10S821J
D 901 Diode	ERA15-02VH	R 252	RS1/10S821J
D 902 Diode	ERA15-02VH	R 255	RS1/10S223J

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
R 256	RS1/10S223J	R 627	RA3C681J
R 259	RS1/10S681J	R 630	RS1/10S473J
R 260	RS1/10S681J	R 631	RS1/10S473J
R 261	RS1/10S0R0J	R 632	RS1/10S393J
R 262	RS1/10S0R0J	R 633	RS1/10S0R0J
R 265	RS1/10S223J	R 634	RS1/10S0R0J
R 266	RS1/10S223J	R 636	RS1/10S473J
R 268	RS1/10S0R0J	R 639	RS1/10S473J
R 269	RS1/10S0R0J	R 651	RS1/10S681J
R 301	RS1/10S151J	R 652	RS1/10S681J
R 302	RS1/10S151J	R 653	RS1/10S681J
R 303	RS1/10S104J	R 654	RS1/10S681J
R 304	RS1/10S104J	R 753	RS1/10S473J
R 351	RS1/10S0R0J	R 801	RS1/8S222J
R 352	RS1/10S0R0J	R 802	RS1/8S222J
R 353	RS1/10S0R0J	R 803	RS1/8S222J
R 354	RS1/10S0R0J	R 804	RS1/10S132J
R 501	RS1/10S0R0J	R 805	RS1/10S822J
R 502	RS1/10S222J	R 806	RS2PMF100J
R 503	RS1/10S222J	R 807	RD1/4PU471J
R 504	RS1/10S102J	R 808	RS1/10S223J
R 505	RS1/10S222J	R 809	RS1/10S682J
R 506	RS1/10S152J	R 810	RS1/10S103J
R 507	RS1/10S472J	R 811	RS1/10S224J
R 508	RS1/10S472J	R 812	RS1/10S104J
R 509	RS1/10S472J	R 813	RS2PMF220J
R 510	RS1/10S182J	R 814	RS1/10S222J
R 511	RS1/10S103J	R 815	RD1/4PU152J
R 513	RS1/10S0R0J	R 851	RS1/8S471J
R 514	RS1/10S392J	R 852	RS1/10S473J
R 515	RS1/10S392J	R 853	RS1/10S223J
R 516	RS1/10S152J	R 854	RS1/10S223J
R 517	RS1/10S102J	R 855	RS1/10S103J
R 518	RS1/10S102J	R 856	RS1/10S223J
R 519	RS1/10S102J	R 857	RS1/10S272J
R 520	RS1/10S103J	R 858	RS1/8S102J
R 522	RS1/10S562J	R 866	RS1/10S473J
R 523	RS1/10S472J	R 867	RS1/10S473J
R 526	RS1/10S0R0J	R 869	RS1/10S103J
R 528	RS1/10S0R0J	R 870	RS1/10S102J
R 601	RS1/10S102J	R 911	RS1/10S752J
R 602	RS1/10S473J	R 912	RS1/10S101J
R 604	RS1/10S473J	R 913	RS1/10S392J
R 605	RS1/10S473J	R 921	RS1/10S103J
R 606	RS1/10S473J	R 922	RS1/10S473J
R 607	RS1/10S473J	R 923	RS1/10S103J
R 608	RS1/10S473J	R 924	RS1/10S103J
R 609	RS1/10S473J	R 925	RS1/10S473J
R 610	RS1/10S222J	R 926	RS1/10S472J
R 611	RS1/10S222J	R 927	RS1/10S224J
R 612	RS1/10S222J	R 933	RS1/10S472J
R 613	RS1/10S393J	R 934	RD1/4PU272J
R 614	RS1/10S473J	R 941	RS1/10S102J
R 615	RN1/10SE2002D	R 942	RS1/10S822J
R 616	RS1/10S473J	R 943	RS1/8S471J
R 617	RS1/10S473J	R 946	RS1/10S473J
R 618	RS1/10S473J	R 951	RD1/4PU221J
R 619	RS1/10S333J	R 952	RD1/4PU511J
R 620	RS1/10S333J	R 953	RS1/10S1R0J
R 621	RS1/10S202J	R 954	RD1/4PU331J
R 622	RS1/10S102J	R 955	RD1/4PU331J
R 623	RS1/10S473J	R 956	RS1/10S472J
R 624	RS1/10S473J	R 957	RD1/4PU102J
R 625	RS1/10S681J	R 958	RS1/10S472J
R 626	RS1/10S102J	R 959	RD1/4PU102J

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
R 960	RS1/10S472J	C 502	CCSQCH150K50
R 961	RS1/10S103J	C 503	CKSQYB103K50
R 962	RS1/10S473J	C 504	CKSQYB103K50
R 963	RS1/10S473J	C 505	CCSQCH101K50
R 971	RD1/4PU221J	C 506	CKSQYB103K50
R 972	RS1/10S221J	C 507	CKSQYB103K50
R 973	RS1/10S472J	C 508	CKSQYB102K50
R 974	RS1/10S222J	C 509	CEJA220M10
CAPACITORS		C 512	CKSQYB223K50
		C 514	CKSQYB473K16
C 101	CEJA1R0M50	C 515	CEJA220M6R3
C 102	CEJA1R0M50	C 516	CKSQYB103K50
C 103	CEJA1R0M50	C 517	CEJA220M6R3
C 104	CEJA1R0M50	C 518	CKSQYB103K50
C 105	CEJA100M16	C 522	CKSQYB103K50
C 106	CKSQYB104K25	C 523	CKLSR473K16
C 107	CKSQYB473K25	C 525	4.7μF/16V CCH1250
C 108	CKSQYB473K25	C 526	CKSQYB103K50
C 131	CEJA2R2M50	C 529	CCSQCH101K50
C 132	CEJA2R2M50	C 530	CKSQYB223K50
C 133	CKSQYB473K16	C 532	CKSQYB473K16
C 134	CKSQYB473K16	C 533	CKSYB154K25
C 135	CEJA4R7M35	C 534	CCSQCH101K50
C 136	CEJA4R7M35	C 601	CCSQCH200J50
C 137	CEJA2R2M50	C 602	CCSQCH200J50
C 138	CEJA2R2M50	C 603	CEJA4R7M35
C 151	CKSQYB473K25	C 604	CCSQCH101J50
C 152	CEJA470M10	C 605	CCSQCH101J50
C 153	CEJANP100M16	C 606	CCSQCH101K50
C 154	CEJANP100M16	C 607	CCSQCH101K50
C 155	CKSQYB822K50	C 608	CCSQCH101K50
C 156	CKSQYB822K50	C 651	CCSQCH821J50
C 157	CEJA1R0M50	C 652	CCSQCH821J50
C 158	CEJA1R0M50	C 653	CCSQCH101J50
C 159	CKSQYB183K50	C 802	CKSQYB104K25
C 160	CKSQYB183K50	C 803	CEJA100M16
C 161	CKSQYB102K50	C 804	CKSQYB103K50
C 162	CKSQYB102K50	C 805	CEJA100M16
C 163	CEJANP2R2M35	C 806	CKSQYB103K50
C 164	CEJANP2R2M35	C 807	CKSQYB333K25
C 165	CKSQYB333K25	C 808	CKSQYB333K25
C 166	CKSQYB333K25	C 853	CKSQYB103K50
C 167	CEJA220M16	C 856	CKSQYB473K25
C 168	CEJA2R2M50	C 911	CKSQYB103K50
C 169	CKSQYB104K25	C 912	CEJA470M10
C 170	CCSQCH101K50	C 913	CKSQYB472K50
C 201	CKSQYB224K16	C 914	1000μF/16V CCH1312
C 202	CKSQYB224K16	C 921	CKSYB105K16
C 203	CKSQYB224K16	C 922	CKSQYB102K50
C 204	CKSQYB224K16	C 941	CEJA2R2M50
C 205	CEJA1R0M50	C 942	CKSQYB102K50
C 206	3300μF/16V CCH1150	C 951	CKSQYB103K50
C 207	CKSQYB473K50	C 952	CEJA101M10
C 208	CEJA100M16	C 953	CCH1181
C 209	CEJA1R0M50	C 971	CKSQYB473K25
C 210	CEJA330M16	C 972	CKSQYB102K50
C 251	CEJA4R7M35	C 973	CEJA101M10
C 252	CEJA4R7M35		
C 253	CEJA4R7M35		
C 254	CEJA4R7M35		
C 255	CKSQYB221K50		
C 256	CKSQYB221K50		
C 301	CEJA100M16		
C 302	CEJA100M16		
C 501	CCSQCH150K50		



Unit Number : CWM5627

Unit Name : Tuner Amp Unit(DEH-46/UC)

MISCELLANEOUS

IC 151	IC
IC 201	IC
IC 271	IC
IC 272	IC
IC 273	IC

SN761027DL
TDA7384
M5282FP
MC14052BF
NJM4558MD

DEH-P645,P56,P545,46,445,41

====Circuit Symbol and No.==Part Name			Part No.	====Circuit Symbol and No.==Part Name			Part No.
IC	501	IC	PM2006A	D	921	Diode	HZS7L(C3)
IC	601	IC	PD4886A	D	922	Diode	ERA15-02VH
IC	851	IC	TPD1018F	D	923	Diode	HZS7L(A1)
IC	941	IC	S-80730ANDT	D	931	Diode	ERA15-02VH
Q	201	Transistor	DTC144EK	D	932	Diode	ERA15-02VH
Q	251	Transistor	IMH3A	D	933	Diode	ERA15-02VH
Q	252	Transistor	IMH3A	D	934	Diode	ERA15-02VH
Q	253	Transistor	IMD2A	D	951	Diode	HZS9L(B3)
Q	254	Transistor	IMH3A	D	952	Diode	HZS9L(A2)
Q	271	Transistor	IMH1A	D	953	Diode	1SS133
Q	272	Transistor	IMD2A	D	971	Diode	HZS9L(B1)
Q	301	Transistor	DTA124EK	L	501	Ferri-Inductor	LAU2R2K
Q	302	Transistor	IMH3A	L	502	Ferri-Inductor	LAU2R2K
Q	501	Transistor	2SC2712	L	503	Ferri-Inductor	LAU2R2K
Q	601	Transistor	DTA114EK	L	601	Inductor	LAU100K
Q	602	Transistor	DTC114EK	L	602	Ferri-Inductor	LAU2R2K
Q	801	Chip Transistor	2SA1162	L	603	Ferri-Inductor	LAU2R2K
Q	802	Transistor	2SD1760F5	L	801	Ferri-Inductor	LAU2R2K
Q	803	Transistor	DTC114EK	L	802	Transformer	MTX9006
Q	804	Transistor	DTA143EK	TH	601	Thermistor	CCX1037
Q	805	Transistor	DTC114EK	X	501	Crystal Resonator 7.200MHz	CSS1379
Q	806	Transistor	2SC2712	X	601	Resonator 15.58291MHz	CSS1402
Q	807	Transistor	2SB1238			FM/AM Tuner Unit	CWE1417
Q	808	Transistor	DTC123EK	BZ	601	Buzzer	CPV1011
Q	809	Transistor	2SD1864				
Q	851	Chip Transistor	2SA1162	RESISTORS			
Q	852	Transistor	DTC124EK	R	115		RS1/10S473J
Q	853	Transistor	2SC2412K	R	133		RS1/10S162J
Q	854	Transistor	2SC2412K	R	134		RS1/10S162J
Q	855	Transistor	2SC2412K	R	141		RS1/10S0R0J
				R	142		RS1/10S0R0J
Q	911	Transistor	2SD1760F5				
Q	912	Transistor	IMD2A	R	151		RS1/10S272J
Q	913	Transistor	DTA114EK	R	152		RS1/10S272J
Q	921	Transistor	IMX1	R	153		RS1/10S151J
Q	922	Transistor	DTC114EK	R	154		RS1/10S151J
				R	155		RS1/10S102J
Q	923	Transistor	2SC2712				
Q	931	Transistor	2SB1243	R	201		RS1/10S103J
Q	932	Transistor	DTC114EK	R	202		RS1/10S331J
Q	951	Transistor	2SD2396	R	203		RS1/10S103J
Q	952	Transistor	2SB1243	R	204		RS1/10S103J
				R	251		RS1/10S821J
Q	953	Transistor	DTC124EK				
Q	954	Transistor	2SA1674	R	252		RS1/10S821J
Q	955	Transistor	2SA1674	R	253		RS1/10S681J
Q	956	Transistor	IMH1A	R	254		RS1/10S681J
Q	957	Transistor	2SC2712	R	255		RS1/10S223J
				R	256		RS1/10S223J
Q	971	Transistor	2SD2396				
Q	972	Transistor	IMD2A	R	257		RS1/10S223J
D	201	Diode	DAN202K	R	258		RS1/10S223J
D	251	Diode	1SS133	R	260		RS1/10S821J
D	252	Diode	1SS133	R	261		RS1/10S0R0J
				R	262		RS1/10S0R0J
D	321	Diode	HZS7L(C2)				
D	501	Diode	MA152WK	R	263		RS1/10S0R0J
D	801	Diode	DA204K	R	264		RS1/10S0R0J
D	802	Diode	DA204K	R	266		RS1/10S223J
D	803	Diode	DA204K	R	267		RS1/10S0R0J
				R	271		RS1/10S183J
D	804	Diode	MA3062(M)				
D	805	Diode	MA3075(L)	R	272		RS1/10S183J
D	806	Diode	MA3039(H)	R	273		RS1/10S103J
D	851	LED	BR4361F	R	274		RS1/10S243J
D	852	Diode	ERA15-02VH	R	275		RS1/10S683J
				R	277		RS1/10S103J
D	853	Diode	ERA15-02VH				
D	901	Diode	ERA15-02VH	R	278		RS1/10S103J
D	902	Diode	ERA15-02VH	R	279		RS1/10S104J
D	911	Diode	ERA15-02VH	R	280		RS1/10S104J
D	912	Diode	HZS6L(B1)	R	281		RS1/10S104J
				R	282		RS1/10S104J

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
R 283	RS1/10S104J	R 632	RS1/10S393J
R 284	RS1/10S104J	R 633	RS1/10S0R0J
R 285	RS1/10S105J	R 634	RS1/10S0R0J
R 287	RS1/10S473J	R 636	RS1/10S473J
R 288	RS1/10S473J	R 639	RS1/10S473J
R 301	RS1/10S151J	R 651	RS1/10S681J
R 302	RS1/10S151J	R 652	RS1/10S681J
R 303	RS1/10S104J	R 653	RS1/10S681J
R 304	RS1/10S104J	R 654	RS1/10S681J
R 351	RS1/10S0R0J	R 753	RS1/10S473J
R 352	RS1/10S0R0J	R 801	RS1/8S222J
R 353	RS1/10S0R0J	R 802	RS1/8S222J
R 354	RS1/10S0R0J	R 803	RS1/8S222J
R 363	RS1/10S330J	R 804	RS1/10S132J
R 501	RS1/10S0R0J	R 805	RS1/10S822J
R 502	RS1/10S222J	R 806	RS2PMF100J
R 503	RS1/10S222J	R 807	RD1/4PU471J
R 504	RS1/10S102J	R 808	RS1/10S223J
R 505	RS1/10S222J	R 809	RS1/10S682J
R 506	RS1/10S152J	R 810	RS1/10S103J
R 507	RS1/10S472J	R 811	RS1/10S224J
R 508	RS1/10S472J	R 812	RS1/10S104J
R 509	RS1/10S472J	R 813	RS2PMF220J
R 510	RS1/10S182J	R 814	RS1/10S222J
R 511	RS1/10S103J	R 815	RD1/4PU152J
R 513	RS1/10S0R0J	R 851	RS1/8S471J
R 514	RS1/10S392J	R 852	RS1/10S473J
R 515	RS1/10S392J	R 853	RS1/10S223J
R 516	RS1/10S152J	R 854	RS1/10S223J
R 517	RS1/10S102J	R 855	RS1/10S103J
R 518	RS1/10S102J	R 856	RS1/10S223J
R 519	RS1/10S102J	R 857	RS1/10S272J
R 520	RS1/10S103J	R 858	RS1/8S102J
R 522	RS1/10S562J	R 859	RS1/10S223J
R 523	RS1/10S472J	R 860	RS1/10S272J
R 526	RS1/10S0R0J	R 861	RS1/10S223J
R 528	RS1/10S0R0J	R 862	RS1/10S272J
R 601	RS1/10S102J	R 863	RS1/10S103J
R 602	RS1/10S473J	R 864	RS1/8S102J
R 604	RS1/10S473J	R 865	RS1/8S102J
R 605	RS1/10S473J	R 866	RS1/10S473J
R 606	RS1/10S473J	R 867	RS1/10S473J
R 607	RS1/10S473J	R 868	RS1/10S103J
R 608	RS1/10S473J	R 869	RS1/10S103J
R 609	RS1/10S473J	R 870	RS1/10S102J
R 610	RS1/10S222J	R 911	RS1/10S752J
R 611	RS1/10S222J	R 912	RS1/10S101J
R 612	RS1/10S222J	R 913	RS1/10S392J
R 613	RS1/10S393J	R 921	RS1/10S103J
R 614	RS1/10S473J	R 922	RS1/10S473J
R 615	RN1/10SE2002D	R 923	RS1/10S103J
R 616	RS1/10S473J	R 924	RS1/10S103J
R 617	RS1/10S473J	R 925	RS1/10S473J
R 618	RS1/10S473J	R 926	RS1/10S472J
R 619	RS1/10S683J	R 927	RS1/10S224J
R 620	RS1/10S333J	R 933	RS1/10S472J
R 621	RS1/10S202J	R 934	RD1/4PU272J
R 622	RS1/10S102J	R 941	RS1/10S102J
R 623	RS1/10S473J	R 942	RS1/10S822J
R 624	RS1/10S473J	R 951	RD1/4PU221J
R 625	RS1/10S681J	R 952	RD1/4PU511J
R 626	RS1/10S102J	R 953	RS1/10S1R0J
R 627	RA3C681J	R 954	RD1/4PU331J
R 630	RS1/10S473J	R 955	RD1/4PU331J
R 631	RS1/10S473J	R 956	RS1/10S472J

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
R 957	RD1/4PU102J	C 282	CKSQYB153K50
R 958	RS1/10S472J	C 284	CEJA4R7M35
R 959	RD1/4PU102J	C 287	CKSQYB473K25
R 960	RS1/10S472J	C 288	CKSQYB473K16
R 961	RS1/10S103J	C 289	CKSQYB103K50
R 962	RS1/10S473J	C 301	CEJA100M16
R 963	RS1/10S473J	C 302	CEJA100M16
R 971	RD1/4PU221J	C 362	CKSQYB103K50
R 972	RS1/10S221J	C 501	CCSQCH150K50
R 973	RS1/10S472J	C 502	CCSQCH150K50
R 974	RS1/10S222J	C 503	CKSQYB103K50
CAPACITORS		C 504	CKSQYB103K50
		C 505	CCSQCH101K50
C 133	CKSQYB473K16	C 506	CKSQYB103K50
C 134	CKSQYB473K16	C 507	CKSQYB103K50
C 135	CEJA4R7M35	C 508	CKSQYB102K50
C 136	CEJA4R7M35	C 509	CEJA220M10
C 137	CEJA2R2M50	C 512	CKSQYB223K50
		C 514	CKSQYB473K16
C 138	CEJA2R2M50	C 515	CEJA220M6R3
C 151	CKSQYB473K25		
C 152	CEJA470M10	C 516	CKSQYB103K50
C 153	CEJANP100M16	C 517	CEJA220M6R3
C 154	CEJANP100M16	C 518	CKSQYB103K50
		C 522	CKSQYB103K50
C 155	CKSQYB822K50	C 523	CKLSR473K16
C 156	CKSQYB822K50		
C 157	CEJA1R0M50	C 525	4.7μF/16V CCH1250
C 158	CEJA1R0M50	C 526	CKSQYB103K50
C 159	CKSQYB183K50	C 529	CCSQCH101K50
		C 530	CKSQYB223K50
C 160	CKSQYB183K50	C 532	CKSQYB473K16
C 161	CKSQYB102K50		
C 162	CKSQYB102K50	C 533	CKSYB154K25
C 163	CEJANP2R2M35	C 534	CCSQCH101K50
C 164	CEJANP2R2M35	C 601	CCSQCH200J50
		C 602	CCSQCH200J50
C 165	CKSQYB333K25	C 603	CEJA4R7M35
C 166	CKSQYB333K25		
C 167	CEJA220M16	C 604	CCSQCH101J50
C 168	CEJA2R2M50	C 605	CCSQCH101J50
C 169	CKSQYB104K25	C 606	CCSQCH101K50
		C 607	CCSQCH101K50
C 170	CCSQCH101K50	C 608	CCSQCH101K50
C 201	CKSQYB224K16		
C 202	CKSQYB224K16	C 651	CCSQCH821J50
C 203	CKSQYB224K16	C 652	CCSQCH821J50
C 204	CKSQYB224K16	C 653	CCSQCH101J50
		C 802	CKSQYB104K25
C 205	CEJA1R0M50	C 803	CEJA100M16
C 206	3300μF/16V CCH1150		
C 207	CKSQYB473K50	C 804	CKSQYB103K50
C 208	CEJA100M16	C 805	CEJA100M16
C 209	CEJA1R0M50	C 806	CKSQYB103K50
		C 807	CKSQYB333K25
C 210	CEJA330M16	C 808	CKSQYB333K25
C 251	CEJA4R7M35		
C 252	CEJA4R7M35	C 851	CKSQYB473K50
C 253	CEJA4R7M35	C 853	CKSQYB103K50
C 254	CEJA4R7M35	C 854	CKSQYB103K50
		C 855	CKSQYB103K50
C 255	CKSQYB221K50	C 856	CKSQYB473K25
C 256	CKSQYB221K50		
C 257	CKSQYB221K50	C 911	CKSQYB103K50
C 258	CKSQYB221K50	C 912	CEJA470M10
C 271	CEJA220M10	C 913	CKSQYB472K50
		C 914	CCH1312
C 272	CEJA101M10	C 921	CKSYB105K16
C 273	CKSQYB472K50		
C 274	CEJA4R7M35	C 922	CKSQYB102K50
C 275	CEJANP220M10	C 941	CEJA2R2M50
C 276	CKSQYB222K50	C 942	CKSQYB102K50
		C 951	CKSQYB103K50
C 277	CKSQYB183K50	C 952	CEJA101M10
C 278	CKSQYB473K25		
C 279	CKSQYB273K25		
C 280	CKSQYB103K50		
C 281	CKSQYB223K50		

====Circuit Symbol and No.==Part Name			Part No.	====Circuit Symbol and No.==Part Name			Part No.
C	953	330μF/10V	CCH1181	D	931	Diode	ERA15-02VH
C	971		CKSQYB473K25	D	932	Diode	ERA15-02VH
C	972		CKSQYB102K50	D	933	Diode	ERA15-02VH
C	973		CEJA101M10	D	934	Diode	ERA15-02VH
A	Unit Number : CWM5628			D	951	Diode	HZS9L(B3)
	Unit Name : Tuner Amp Unit(DEH-445/UC)						
MISCELLANEOUS							
IC	151	IC	SN761027DL	D	952	Diode	HZS9L(A2)
IC	201	IC	TDA7384	D	953	Diode	1SS133
IC	501	IC	PM2006A	D	971	Diode	HZS9L(B1)
IC	601	IC	PD4886A	L	501	Ferri-Inductor	LAU2R2K
IC	941	IC	S-80730ANDT	L	502	Ferri-Inductor	LAU2R2K
Q	201	Transistor	DTC144EK	L	503	Ferri-Inductor	LAU2R2K
Q	251	Transistor	IMH3A	L	601	Inductor	LAU100K
Q	253	Transistor	IMD2A	L	602	Ferri-Inductor	LAU2R2K
Q	254	Transistor	IMH3A	L	603	Ferri-Inductor	LAU2R2K
Q	301	Transistor	DTA124EK	L	801	Ferri-Inductor	LAU2R2K
Q	302	Transistor	IMH3A	L	802	Transformer	MTX9006
Q	501	Transistor	2SC2712	TH	601	Thermistor	CCX1037
Q	601	Transistor	DTA114EK	X	501	Crystal Resonator 7.200MHz	CSS1379
Q	602	Transistor	DTC114EK	X	601	Resonator 15.58291MHz	CSS1402
Q	801	Chip Transistor	2SA1162			FM/AM Tuner Unit	CWE1417
Q	802	Transistor	2SD1760F5	BZ	601	Buzzer	CPV1011
Q	803	Transistor	DTC114EK	RESISTORS			
Q	804	Transistor	DTA143EK	R	115		RS1/10S473J
Q	805	Transistor	DTC114EK	R	133		RS1/10S162J
Q	806	Transistor	2SC2712	R	134		RS1/10S162J
Q	807	Transistor	2SB1238	R	141		RS1/10S0R0J
Q	808	Transistor	DTC123EK	R	142		RS1/10S0R0J
Q	809	Transistor	2SD1864	R	151		RS1/10S272J
Q	851	Chip Transistor	2SA1162	R	152		RS1/10S272J
Q	852	Transistor	DTC124EK	R	153		RS1/10S151J
Q	853	Transistor	2SC2412K	R	154		RS1/10S151J
Q	911	Transistor	2SD1760F5	R	155		RS1/10S102J
Q	912	Transistor	IMD2A	R	201		RS1/10S103J
Q	913	Transistor	DTA114EK	R	202		RS1/10S331J
Q	921	Transistor	IMX1	R	203		RS1/10S103J
Q	922	Transistor	DTC114EK	R	204		RS1/10S103J
Q	923	Transistor	2SC2712	R	251		RS1/10S821J
Q	931	Transistor	2SB1243	R	252		RS1/10S821J
Q	932	Transistor	DTC114EK	R	255		RS1/10S223J
Q	951	Transistor	2SD2396	R	256		RS1/10S223J
Q	952	Transistor	2SB1243	R	259		RS1/10S681J
Q	953	Transistor	DTC124EK	R	260		RS1/10S681J
Q	954	Transistor	2SA1674	R	261		RS1/10S0R0J
Q	955	Transistor	2SA1674	R	262		RS1/10S0R0J
Q	956	Transistor	IMH1A	R	265		RS1/10S223J
Q	957	Transistor	2SC2712	R	266		RS1/10S223J
Q	971	Transistor	2SD2396	R	268		RS1/10S0R0J
Q	972	Transistor	IMD2A	R	269		RS1/10S0R0J
D	201	Diode	DAN202K	R	301		RS1/10S151J
D	251	Diode	1SS133	R	302		RS1/10S151J
D	501	Diode	MA152WK	R	303		RS1/10S104J
D	801	Diode	DA204K	R	304		RS1/10S104J
D	802	Diode	DA204K	R	351		RS1/10S0R0J
D	803	Diode	DA204K	R	352		RS1/10S0R0J
D	804	Diode	MA3062(M)	R	353		RS1/10S0R0J
D	805	Diode	MA3075(L)	R	354		RS1/10S0R0J
D	806	Diode	MA3039(H)	R	501		RS1/10S0R0J
D	851	LED	BR4361F	R	502		RS1/10S222J
D	901	Diode	ERA15-02VH	R	503		RS1/10S222J
D	902	Diode	ERA15-02VH	R	504		RS1/10S102J
D	911	Diode	ERA15-02VH	R	505		RS1/10S222J
D	912	Diode	HZS6L(B1)	R	506		RS1/10S152J
D	921	Diode	HZS7L(C3)	R	507		RS1/10S472J
D	922	Diode	ERA15-02VH	R	508		RS1/10S472J
D	923	Diode	HZS7L(A1)	R	509		RS1/10S472J
				R	510		RS1/10S182J
				R	511		RS1/10S103J

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====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
R 513	RS1/10S0R0J	R 851	RS1/8S471J
R 514	RS1/10S392J	R 852	RS1/10S473J
R 515	RS1/10S392J	R 853	RS1/10S223J
R 516	RS1/10S152J	R 854	RS1/10S223J
R 517	RS1/10S102J	R 855	RS1/10S103J
R 518	RS1/10S102J	R 856	RS1/10S223J
R 519	RS1/10S102J	R 857	RS1/10S272J
R 520	RS1/10S103J	R 858	RS1/8S102J
R 522	RS1/10S562J	R 866	RS1/10S473J
R 523	RS1/10S472J	R 867	RS1/10S473J
R 526	RS1/10S0R0J	R 869	RS1/10S103J
R 528	RS1/10S0R0J	R 870	RS1/10S102J
R 601	RS1/10S102J	R 911	RS1/10S752J
R 602	RS1/10S473J	R 912	RS1/10S101J
R 604	RS1/10S473J	R 913	RS1/10S392J
R 605	RS1/10S473J	R 921	RS1/10S103J
R 606	RS1/10S473J	R 922	RS1/10S473J
R 607	RS1/10S473J	R 923	RS1/10S103J
R 608	RS1/10S473J	R 924	RS1/10S103J
R 609	RS1/10S473J	R 925	RS1/10S473J
R 610	RS1/10S222J	R 926	RS1/10S472J
R 611	RS1/10S222J	R 927	RS1/10S224J
R 612	RS1/10S222J	R 933	RS1/10S472J
R 613	RS1/10S393J	R 934	RD1/4PU272J
R 614	RS1/10S473J	R 941	RS1/10S102J
R 615	RN1/10SE2002D	R 942	RS1/10S822J
R 616	RS1/10S473J	R 951	RD1/4PU221J
R 617	RS1/10S473J	R 952	RD1/4PU511J
R 618	RS1/10S473J	R 953	RS1/10S1R0J
R 619	RS1/10S104J	R 954	RD1/4PU331J
R 620	RS1/10S223J	R 955	RD1/4PU331J
R 621	RS1/10S202J	R 956	RS1/10S472J
R 622	RS1/10S102J	R 957	RD1/4PU102J
R 623	RS1/10S473J	R 958	RS1/10S472J
R 624	RS1/10S473J	R 959	RD1/4PU102J
R 625	RS1/10S681J	R 960	RS1/10S472J
R 626	RS1/10S102J	R 961	RS1/10S103J
R 627	RA3C681J	R 962	RS1/10S473J
R 630	RS1/10S473J	R 963	RS1/10S473J
R 631	RS1/10S473J	R 971	RD1/4PU221J
R 632	RS1/10S393J	R 972	RS1/10S221J
R 633	RS1/10S0R0J	R 973	RS1/10S472J
R 634	RS1/10S0R0J	R 974	RS1/10S222J
R 636	RS1/10S473J	CAPACITORS	
R 639	RS1/10S473J		
R 651	RS1/10S681J	C 133	CKSQYB473K16
R 652	RS1/10S681J	C 134	CKSQYB473K16
R 653	RS1/10S681J	C 135	CEJA4R7M35
R 654	RS1/10S681J	C 136	CEJA4R7M35
R 753	RS1/10S473J	C 137	CEJA2R2M50
R 801	RS1/8S222J	C 138	CEJA2R2M50
R 802	RS1/8S222J	C 151	CKSQYB473K25
R 803	RS1/8S222J	C 152	CEJA470M10
R 804	RS1/10S132J	C 153	CEJANP100M16
R 805	RS1/10S822J	C 154	CEJANP100M16
R 806	RS2PMF100J	C 155	CKSQYB822K50
R 807	RD1/4PU471J	C 156	CKSQYB822K50
R 808	RS1/10S223J	C 157	CEJA1R0M50
R 809	RS1/10S682J	C 158	CEJA1R0M50
R 810	RS1/10S103J	C 159	CKSQYB183K50
R 811	RS1/10S224J	C 160	CKSQYB183K50
R 812	RS1/10S104J	C 161	CKSQYB102K50
R 813	RS2PMF220J	C 162	CKSQYB102K50
R 814	RS1/10S222J	C 163	CEJANP2R2M35
R 815	RD1/4PU152J	C 164	CEJANP2R2M35

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====Circuit Symbol and No.==Part Name			Part No.	====Circuit Symbol and No.==Part Name			Part No.
D	902	Diode	ERA15-02VH	R	516		RS1/10S152J
D	911	Diode	ERA15-02VH	R	517		RS1/10S102J
D	912	Diode	HZS6L(B1)	R	518		RS1/10S102J
D	921	Diode	HZS7L(C3)	R	519		RS1/10S102J
D	922	Diode	ERA15-02VH	R	520		RS1/10S103J
D	923	Diode	HZS7L(A1)	R	522		RS1/10S562J
D	931	Diode	ERA15-02VH	R	523		RS1/10S472J
D	932	Diode	ERA15-02VH	R	526		RS1/10S0R0J
D	951	Diode	HZS9L(B3)	R	528		RS1/10S0R0J
D	952	Diode	HZS9L(A2)	R	601		RS1/10S102J
D	953	Diode	1SS133	R	602		RS1/10S473J
D	971	Diode	HZS9L(B1)	R	604		RS1/10S473J
L	501	Ferri-Inductor	LAU2R2K	R	605		RS1/10S473J
L	502	Ferri-Inductor	LAU2R2K	R	606		RS1/10S473J
L	503	Ferri-Inductor	LAU2R2K	R	607		RS1/10S473J
L	601	Inductor	LAU100K	R	608		RS1/10S473J
L	602	Ferri-Inductor	LAU2R2K	R	609		RS1/10S473J
L	603	Ferri-Inductor	LAU2R2K	R	610		RS1/10S222J
L	801	Ferri-Inductor	LAU2R2K	R	611		RS1/10S222J
L	802	Transformer	MTX9006	R	612		RS1/10S222J
TH	601	Thermistor	CCX1037	R	613		RS1/10S393J
X	501	Crystal Resonator 7.200MHz	CSS1379	R	614		RS1/10S473J
X	601	Resonator 15.58291MHz	CSS1402	R	615		RN1/10SE2002D
		FM/AM Tuner Unit	CWE1417	R	616		RS1/10S473J
BZ	601	Buzzer	CPV1011	R	617		RS1/10S473J
RESISTORS				R	618		RS1/10S473J
R	115		RS1/10S473J	R	620		RS1/10S0R0J
R	133		RS1/10S162J	R	621		RS1/10S202J
R	134		RS1/10S162J	R	622		RS1/10S102J
R	141		RS1/10S0R0J	R	623		RS1/10S473J
R	142		RS1/10S0R0J	R	624		RS1/10S473J
R	151		RS1/10S272J	R	625		RS1/10S681J
R	152		RS1/10S272J	R	626		RS1/10S102J
R	153		RS1/10S151J	R	627		RA3C681J
R	154		RS1/10S151J	R	630		RS1/10S473J
R	155		RS1/10S102J	R	631		RS1/10S473J
R	201		RS1/10S103J	R	632		RS1/10S393J
R	202		RS1/10S331J	R	633		RS1/10S0R0J
R	203		RS1/10S103J	R	634		RS1/10S0R0J
R	204		RS1/10S103J	R	636		RS1/10S473J
R	259		RS1/10S681J	R	639		RS1/10S473J
R	260		RS1/10S681J	R	651		RS1/10S681J
R	265		RS1/10S223J	R	652		RS1/10S681J
R	266		RS1/10S223J	R	653		RS1/10S681J
R	268		RS1/10S0R0J	R	654		RS1/10S681J
R	269		RS1/10S0R0J	R	753		RS1/10S473J
R	301		RS1/10S151J	R	801		RS1/8S222J
R	302		RS1/10S151J	R	802		RS1/8S222J
R	351		RS1/10S0R0J	R	803		RS1/8S222J
R	352		RS1/10S0R0J	R	804		RS1/10S132J
R	353		RS1/10S0R0J	R	805		RS1/10S822J
R	354		RS1/10S0R0J	R	806		RS2PMF100J
R	501		RS1/10S0R0J	R	807		RD1/4PU471J
R	502		RS1/10S222J	R	808		RS1/10S223J
R	503		RS1/10S222J	R	809		RS1/10S682J
R	504		RS1/10S102J	R	810		RS1/10S103J
R	505		RS1/10S222J	R	811		RS1/10S224J
R	506		RS1/10S152J	R	812		RS1/10S104J
R	507		RS1/10S472J	R	813		RS2PMF220J
R	508		RS1/10S472J	R	814		RS1/10S222J
R	509		RS1/10S472J	R	815		RD1/4PU152J
R	510		RS1/10S182J	R	852		RS1/10S473J
R	511		RS1/10S103J	R	866		RS1/10S473J
R	513		RS1/10S0R0J	R	867		RS1/10S473J
R	514		RS1/10S392J	R	911		RS1/10S752J
R	515		RS1/10S392J				

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.==Part Name	Part No.
R 912	RS1/10S101J	C 210	CEJA330M16
R 913	RS1/10S392J	C 253	CEJA4R7M35
R 921	RS1/10S103J	C 254	CEJA4R7M35
R 922	RS1/10S473J	C 501	CCSQCH150K50
R 923	RS1/10S103J	C 502	CCSQCH150K50
R 924	RS1/10S103J	C 503	CKSQYB103K50
R 925	RS1/10S473J	C 504	CKSQYB103K50
R 926	RS1/10S472J	C 505	CCSQCH101K50
R 927	RS1/10S224J	C 506	CKSQYB103K50
R 941	RS1/10S102J	C 507	CKSQYB103K50
R 942	RS1/10S822J	C 508	CKSQYB102K50
R 951	RD1/4PU221J	C 509	CEJA220M10
R 952	RD1/4PU511J	C 512	CKSQYB223K50
R 953	RS1/10S1R0J	C 514	CKSQYB473K16
R 954	RD1/4PU331J	C 515	CEJA220M6R3
R 955	RD1/4PU331J	C 516	CKSQYB103K50
R 956	RS1/10S472J	C 517	CEJA220M6R3
R 957	RD1/4PU102J	C 518	CKSQYB103K50
R 958	RS1/10S472J	C 522	CKSQYB103K50
R 959	RD1/4PU102J	C 523	CKLSR473K16
R 960	RS1/10S472J	C 525	4.7μF/16V CCH1250
R 961	RS1/10S103J	C 526	CKSQYB103K50
R 962	RS1/10S473J	C 529	CCSQCH101K50
R 963	RS1/10S473J	C 530	CKSQYB223K50
R 971	RD1/4PU221J	C 532	CKSQYB473K16
R 972	RS1/10S221J	C 533	CKSYB154K25
R 973	RS1/10S472J	C 534	CCSQCH101K50
R 974	RS1/10S222J	C 601	CCSQCH200J50
CAPACITORS		C 602	CCSQCH200J50
		C 603	CEJA4R7M35
C 133	CKSQYB473K16	C 604	CCSQCH101J50
C 134	CKSQYB473K16	C 605	CCSQCH101J50
C 135	CEJA4R7M35	C 606	CCSQCH101K50
C 136	CEJA4R7M35	C 607	CCSQCH101K50
C 137	CEJA2R2M50	C 608	CCSQCH101K50
C 138	CEJA2R2M50	C 651	CCSQCH821J50
C 151	CKSQYB473K25	C 652	CCSQCH821J50
C 152	CEJA470M10	C 653	CCSQCH101J50
C 153	CEJANP100M16	C 802	CKSQYB104K25
C 154	CEJANP100M16	C 803	CEJA100M16
C 155	CKSQYB822K50	C 804	CKSQYB103K50
C 156	CKSQYB822K50	C 805	CEJA100M16
C 157	CEJA1R0M50	C 806	CKSQYB103K50
C 158	CEJA1R0M50	C 807	CKSQYB333K25
C 159	CKSQYB183K50	C 808	CKSQYB333K25
C 160	CKSQYB183K50	C 911	CKSQYB103K50
C 161	CKSQYB102K50	C 912	CEJA470M10
C 162	CKSQYB102K50	C 913	CKSQYB472K50
C 163	CEJANP2R2M35	C 914	CCH1312
C 164	CEJANP2R2M35	C 921	CKSYB105K16
C 165	CKSQYB333K25	C 922	CKSQYB102K50
C 166	CKSQYB333K25	C 941	CEJA2R2M50
C 167	CEJA220M16	C 942	CKSQYB102K50
C 168	CEJA2R2M50	C 951	CKSQYB103K50
C 169	CKSQYB104K25	C 952	CEJA101M10
C 170	CCSQCH101K50	C 953	330μF/10V CCH1181
C 201	CKSQYB224K16	C 971	CKSQYB473K25
C 202	CKSQYB224K16	C 972	CKSQYB102K50
C 203	CKSQYB224K16	C 973	CEJA101M10
C 204	CKSQYB224K16		
C 205	CEJA1R0M50		
C 206	3300μF/16V CCH1150		
C 207	CKSQYB473K50		
C 208	CEJA100M16		
C 209	CEJA1R0M50		

DEH-P645,P56,P545,46,445,41

====Circuit Symbol and No.==Part Name

Part No.

KEYBOARD UNIT
Consists of
Keyboard PCB
Switch PCB



Unit Number : CWM5634
Unit Name : Keyboard Unit(DEH-P645/UC)

MISCELLANEOUS

IC 1801	IC	PD6197A
IC 1802		RS-140
D 1801	Diode	DA204K
D 1802	Diode	DA204K
D 1821	LED	CL220PGC
D 1822	LED	CL220PGC
D 1825	LED	CL170PGCD
D 1826	LED	CL170PGCD
D 1827	LED	CL170PGCD
D 1828	LED	CL170PGCD
D 1829	LED	CL170PGCD
D 1830	LED	CL170PGCD
D 1831	LED	CL170PGCD
D 1832	LED	CL170PGCD
D 1833	LED	CL170PGCD
D 1834	LED	CL170PGCD
D 1836	LED	CL170PGCD
D 1837	LED	CL170PGCD
D 1838	LED	CL170PGCD
D 1839	LED	CL170PGCD
D 1840	LED	CL170PGCD
D 1841	LED	CL170PGCD
D 1842	LED	CL170PGCD
D 1843	LED	CL170PGCD
X 1801	Resonator 5.00MHz	CSS1423
S 801	Switch	CSN1027
S 1801		CSG1085
S 1802		CSG1086
S 1803	Switch	CSG1041
S 1804		CSG1084
S 1805		CSG1086
S 1806	Switch	CSG1041
S 1807	Switch	CSG1041
S 1808	Switch	CSG1041
S 1809		CSG1085
S 1810		CSG1084
S 1811		CSG1085
S 1812	Switch	CSG1041
S 1813	Switch	CSG1041
S 1814	Switch	CSG1041
S 1815		CSG1061
S 1816	Switch	CSG1041
S 1817	Switch	CSG1041
S 1818	Switch	CSG1041
S 1819	Switch	CSG1041
S 1820	Switch	CSG1041
S 1821	Switch	CSG1041
	LCD	CAW1479

RESISTORS

R 1801	RS1/8S222J
R 1802	RS1/8S222J
R 1803	RS1/10S472J
R 1804	RS1/10S121J
R 1805	RS1/10S2R2J

====Circuit Symbol and No.==Part Name

Part No.

R 1812	RS1/10S0R0J
R 1815	RS1/10S0R0J
R 1816	RS1/10S0R0J
R 1821	RS1/8S101J
R 1822	RS1/8S181J
R 1823	RS1/8S101J
R 1824	RS1/8S181J
R 1825	RS1/8S101J
R 1826	RS1/8S181J
R 1827	RS1/8S101J
R 1828	RS1/8S121J
R 1829	RS1/8S101J
R 1830	RS1/8S181J
R 1831	RS1/8S201J
R 1832	RS1/8S221J
R 1833	RS1/8S101J
R 1834	RS1/8S181J
R 1835	RS1/8S101J
R 1836	RS1/8S181J
R 1837	RS1/8S101J
R 1838	RS1/8S181J
R 1839	RS1/8S101J
R 1840	RS1/8S181J

CAPACITORS

C 1801	CKSQYB104K50
C 1802	CEV100M16
C 1803	CKSQYB104K25
C 1804	CKSQYB104K25
C 1805	CKSQYB104K50
C 1806	CKSQYB104K25

KEYBOARD UNIT
Consists of
Keyboard PCB
Switch PCB



Unit Number : CWM5636
Unit Name : Keyboard Unit(DEH-P56/UC)

MISCELLANEOUS

IC 1801	IC	PD6197A
IC 1802		RS-140
D 1801	Diode	DA204K
D 1802	Diode	DA204K
D 1821	LED	CL220PGC
D 1822	LED	CL220PGC
D 1825	LED	CL170PGCD
D 1826	LED	CL170PGCD
D 1827	LED	CL170PGCD
D 1828	LED	CL170PGCD
D 1829	LED	CL170PGCD
D 1830	LED	CL170PGCD
D 1831	LED	CL170PGCD
D 1832	LED	CL170PGCD
D 1833	LED	CL170PGCD
D 1834	LED	CL170PGCD
D 1836	LED	CL170PGCD
D 1837	LED	CL170PGCD
D 1838	LED	CL170PGCD
D 1839	LED	CL170PGCD
D 1840	LED	CL170PGCD
D 1841	LED	CL170PGCD
D 1842	LED	CL170PGCD
D 1843	LED	CL170PGCD
X 1801	Resonator 5.00MHz	CSS1423

====Circuit Symbol and No.==Part Name

Part No.

S 801 Switch
S 1801
S 1802
S 1803 Switch
S 1804

CSN1027
CSG1085
CSG1086
CSG1041
CSG1084

S 1805
S 1806 Switch
S 1807 Switch
S 1808 Switch
S 1809

CSG1086
CSG1041
CSG1041
CSG1041
CSG1085

S 1810
S 1811
S 1812 Switch
S 1813 Switch
S 1814 Switch

CSG1084
CSG1085
CSG1041
CSG1041
CSG1041

S 1815
S 1816 Switch
S 1817 Switch
S 1818 Switch
S 1819 Switch

CSG1061
CSG1041
CSG1041
CSG1041
CSG1041

S 1820 Switch
S 1821 Switch
LCD

CSG1041
CSG1041
CAW1459

RESISTORS

R 1801
R 1802
R 1803
R 1804
R 1805

RS1/8S222J
RS1/8S222J
RS1/10S472J
RS1/10S121J
RS1/10S2R2J

R 1813
R 1814
R 1816
R 1821
R 1822

RS1/10S0R0J
RS1/10S0R0J
RS1/10S0R0J
RS1/8S101J
RS1/8S181J

R 1823
R 1824
R 1825
R 1826
R 1827

RS1/8S101J
RS1/8S181J
RS1/8S101J
RS1/8S181J
RS1/8S101J

R 1828
R 1829
R 1830
R 1831
R 1832

RS1/8S121J
RS1/8S101J
RS1/8S181J
RS1/8S201J
RS1/8S221J

R 1833
R 1834
R 1835
R 1836
R 1837

RS1/8S101J
RS1/8S181J
RS1/8S101J
RS1/8S181J
RS1/8S101J

R 1838
R 1839
R 1840

RS1/8S181J
RS1/8S101J
RS1/8S181J

CAPACITORS

C 1801
C 1802
C 1803
C 1804
C 1805

CKSQYB104K50
CEV100M16
CKSQYB104K25
CKSQYB104K25
CKSQYB104K50

C 1806

CKSQYB104K25

====Circuit Symbol and No.==Part Name

Part No.

KEYBOARD UNIT
Consists of
Keyboard PCB
Switch PCB



Unit Number : CWM5636

Unit Name : Keyboard Unit(DEH-P545/UC)

MISCELLANEOUS

IC 1801 IC
IC 1802
D 1801 Diode
D 1802 Diode
D 1821 LED

PD6197A
RS-140
DA204K
DA204K
CL220PGC

D 1822 LED
D 1825 LED
D 1826 LED
D 1827 LED
D 1828 LED

CL220PGC
CL170PGCD
CL170PGCD
CL170PGCD
CL170PGCD

D 1829 LED
D 1830 LED
D 1831 LED
D 1832 LED
D 1833 LED

CL170PGCD
CL170PGCD
CL170PGCD
CL170PGCD
CL170PGCD

D 1834 LED
D 1836 LED
D 1837 LED
D 1838 LED
D 1839 LED

CL170PGCD
CL170PGCD
CL170PGCD
CL170PGCD
CL170PGCD

D 1840 LED
D 1841 LED
D 1842 LED
D 1843 LED
X 1801 Resonator 5.00MHz

CL170PGCD
CL170PGCD
CL170PGCD
CL170PGCD
CSS1423

S 801 Switch
S 1801
S 1802
S 1803 Switch
S 1804

CSN1027
CSG1085
CSG1086
CSG1041
CSG1084

S 1805
S 1806 Switch
S 1807 Switch
S 1808 Switch
S 1809

CSG1086
CSG1041
CSG1041
CSG1041
CSG1085

S 1810
S 1811
S 1812 Switch
S 1813 Switch
S 1814 Switch

CSG1084
CSG1085
CSG1041
CSG1041
CSG1041

S 1815
S 1816 Switch
S 1817 Switch
S 1818 Switch
S 1819 Switch

CSG1061
CSG1041
CSG1041
CSG1041
CSG1041

S 1820 Switch
S 1821 Switch
LCD

CSG1041
CSG1041
CAW1459

RESISTORS

R 1801
R 1802
R 1803
R 1804
R 1805

RS1/8S222J
RS1/8S222J
RS1/10S472J
RS1/10S121J
RS1/10S2R2J

====Circuit Symbol and No.==Part Name

Part No.

KEYBOARD UNIT
Consists of
Keyboard PCB
Switch PCB



Unit Number : CWM5640
Unit Name : Keyboard Unit(DEH-445/UC)

MISCELLANEOUS

IC 1801	IC	PD6197A
IC 1802		RS-140
D 1801	Diode	DA204K
D 1802	Diode	DA204K
D 1821	LED	CL220PGC
D 1822	LED	CL220PGC
D 1825	LED	CL170PGCD
D 1827	LED	CL170PGCD
D 1828	LED	CL170PGCD
D 1829	LED	CL170PGCD
D 1831	LED	CL170PGCD
D 1832	LED	CL170PGCD
D 1834	LED	CL170PGCD
D 1836	LED	CL170PGCD
D 1837	LED	CL170PGCD
D 1838	LED	CL170PGCD
D 1839	LED	CL170PGCD
D 1840	LED	CL170PGCD
D 1841	LED	CL170PGCD
D 1842	LED	CL170PGCD
D 1843	LED	CL170PGCD
X 1801	Resonator 5.00MHz	CSS1423
S 801	Switch	CSN1027
S 1801		CSG1085
S 1802		CSG1086
S 1803	Switch	CSG1041
S 1804		CSG1084
S 1805	Push Switch	CSG1084
S 1806	Switch	CSG1041
S 1807	Switch	CSG1041
S 1808	Switch	CSG1041
S 1809		CSG1085
S 1810		CSG1084
S 1811		CSG1085
S 1812	Switch	CSG1041
S 1813	Switch	CSG1041
S 1814	Switch	CSG1041
S 1815		CSG1061
S 1816	Switch	CSG1041
S 1817	Switch	CSG1041
S 1818	Switch	CSG1041
S 1819	Switch	CSG1041
S 1820	Switch	CSG1041
S 1821	Switch	CSG1041
	LCD	CAW1479
RESISTORS		
R 1801		RS1/8S222J
R 1802		RS1/8S222J
R 1803		RS1/10S472J
R 1804		RS1/10S121J
R 1805		RS1/10S2R2J
R 1813		RS1/10S0R0J
R 1814		RS1/10S0R0J
R 1816		RS1/10S0R0J
R 1821		RS1/8S201J
R 1822		RS1/8S221J

====Circuit Symbol and No.==Part Name

Part No.

R 1823		RS1/8S201J
R 1824		RS1/8S221J
R 1825		RS1/8S201J
R 1826		RS1/8S221J
R 1827		RS1/8S101J

R 1828		RS1/8S121J
R 1829		RS1/8S101J
R 1830		RS1/8S181J
R 1831		RS1/8S201J
R 1832		RS1/8S221J

R 1833		RS1/8S101J
R 1834		RS1/8S181J
R 1835		RS1/8S101J
R 1836		RS1/8S181J
R 1837		RS1/8S101J

R 1838		RS1/8S181J
R 1839		RS1/8S201J
R 1840		RS1/8S221J
R 1841		RS1/10S0R0J
R 1842		RS1/10S0R0J

R 1843		RS1/10S0R0J
R 1845		RS1/10S0R0J

CAPACITORS

C 1801		CKSQYB104K50
C 1802		CEV100M16
C 1803		CKSQYB104K25
C 1804		CKSQYB104K25
C 1805		CKSQYB104K50

C 1806		CKSQYB104K25
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KEYBOARD UNIT
Consists of
Keyboard PCB
Switch PCB



Unit Number : CWM5640
Unit Name : Keyboard Unit(DEH-41/UC)

MISCELLANEOUS

IC 1801	IC	PD6197A
IC 1802		RS-140
D 1801	Diode	DA204K
D 1802	Diode	DA204K
D 1821	LED	CL220PGC

D 1822	LED	CL220PGC
D 1825	LED	CL170PGCD
D 1827	LED	CL170PGCD
D 1828	LED	CL170PGCD
D 1829	LED	CL170PGCD

D 1831	LED	CL170PGCD
D 1832	LED	CL170PGCD
D 1834	LED	CL170PGCD
D 1836	LED	CL170PGCD
D 1837	LED	CL170PGCD

D 1838	LED	CL170PGCD
D 1839	LED	CL170PGCD
D 1840	LED	CL170PGCD
D 1841	LED	CL170PGCD
D 1842	LED	CL170PGCD

D 1843	LED	CL170PGCD
X 1801	Resonator 5.00MHz	CSS1423
S 801	Switch	CSN1027
S 1801		CSG1085
S 1802		CSG1086

====Circuit Symbol and No.==Part Name	Part No.
S 1803 Switch	CSG1041
S 1804	CSG1084
S 1805 Push Switch	CSG1084
S 1806 Switch	CSG1041
S 1807 Switch	CSG1041
S 1808 Switch	CSG1041
S 1809	CSG1085
S 1810	CSG1084
S 1811	CSG1085
S 1812 Switch	CSG1041
S 1813 Switch	CSG1041
S 1814 Switch	CSG1041
S 1815	CSG1061
S 1816 Switch	CSG1041
S 1817 Switch	CSG1041
S 1818 Switch	CSG1041
S 1819 Switch	CSG1041
S 1820 Switch	CSG1041
S 1821 Switch	CSG1041
LCD	CAW1479

RESISTORS

R 1801	RS1/8S222J
R 1802	RS1/8S222J
R 1803	RS1/10S472J
R 1804	RS1/10S121J
R 1805	RS1/10S2R2J
R 1813	RS1/10S0R0J
R 1814	RS1/10S0R0J
R 1816	RS1/10S0R0J
R 1821	RS1/8S201J
R 1822	RS1/8S221J
R 1823	RS1/8S201J
R 1824	RS1/8S221J
R 1825	RS1/8S201J
R 1826	RS1/8S221J
R 1827	RS1/8S101J
R 1828	RS1/8S121J
R 1829	RS1/8S101J
R 1830	RS1/8S181J
R 1831	RS1/8S201J
R 1832	RS1/8S221J
R 1833	RS1/8S101J
R 1834	RS1/8S181J
R 1835	RS1/8S101J
R 1836	RS1/8S181J
R 1837	RS1/8S101J
R 1838	RS1/8S181J
R 1839	RS1/8S201J
R 1840	RS1/8S221J
R 1841	RS1/10S0R0J
R 1842	RS1/10S0R0J
R 1843	RS1/10S0R0J
R 1845	RS1/10S0R0J

CAPACITORS

C 1801	CKSQYB104K50
C 1802	CEV100M16
C 1803	CKSQYB104K25
C 1804	CKSQYB104K25
C 1805	CKSQYB104K50
C 1806	CKSQYB104K25

====Circuit Symbol and No.==Part Name	Part No.
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Unit Number:
Unit Name : Photo Unit

Q 1	Photo-transistor	CPT-230S-X
Q 2	Photo-transistor	CPT-230S-X

Miscellaneous Parts List

M 1	Pickup Unit(Service)	CXX1230
M 2	Motor Unit	CXA8912
M 3	CRG Motor Unit	CXA8986
	Load Motor Unit	CXA8702

6. ADJUSTMENT

6.1 TUNER ADJUSTMENT

● Connection Diagram

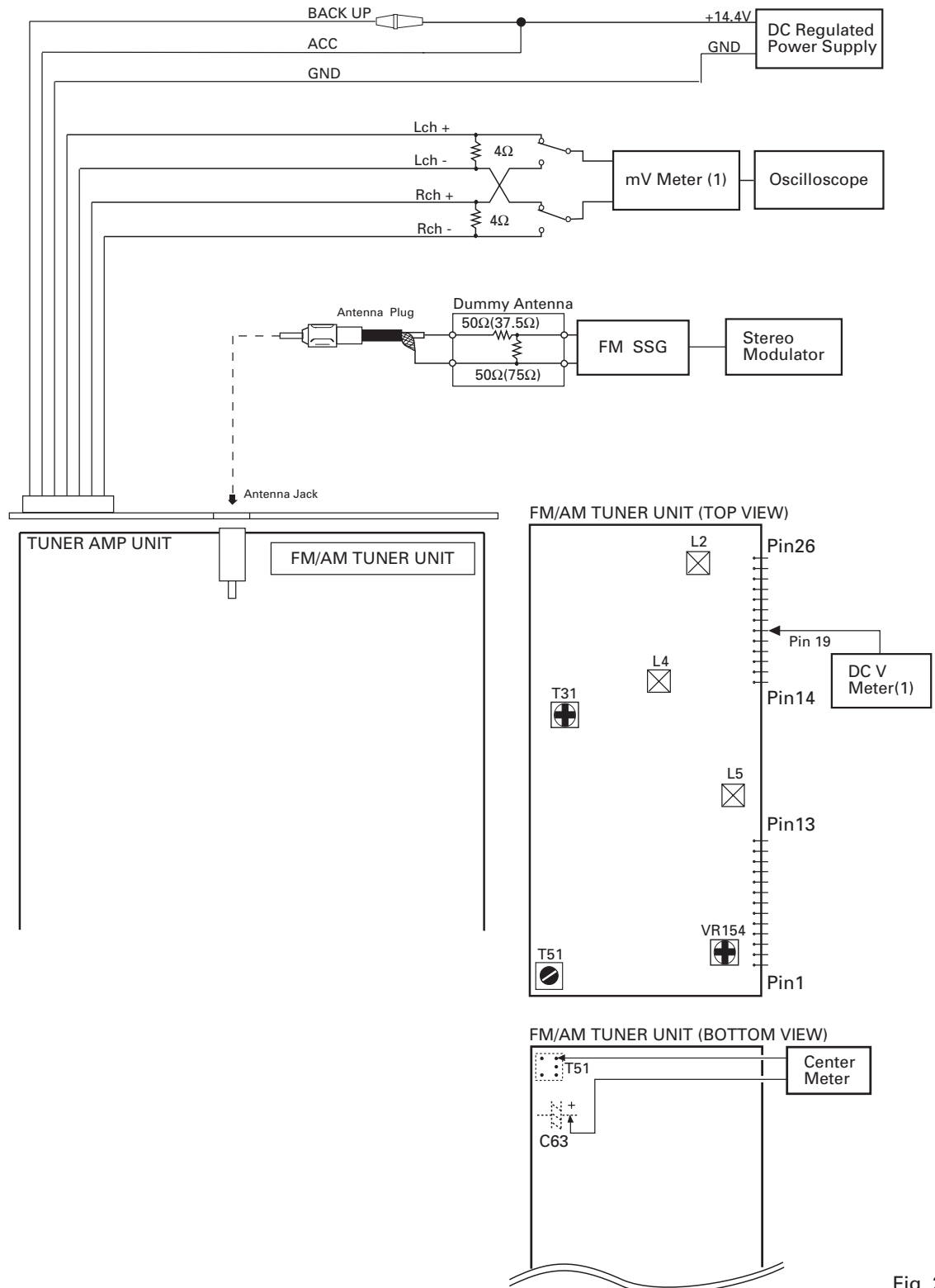


Fig. 24

FM ADJUSTMENT

Modulation M: MONO MOD., 400Hz 30%(22.5kHz Dev.)

S: STEREO MOD., 1kHz, L or R=30%(20.25kHz+7.5kHz Dev.)

NOTE: Before proceeding to further adjustments after switching power ON, let the tuner run for ten minutes to allow the circuits to stabilize.

	No.	FM SSG		Displayed Frequency(MHz)	Adjustment Point	Adjustment Method (Switch Position)
		Frequency(MHz)	Level(dBf)			
TUN Volt	1	••••	••••	108.0	L5	DC V Meter(1) : 6V
IF	1	98.1 M	60	98.1	T51	Center Meter : 0
ANT Coil	1	98.1 M	5	98.1	L2	mV Meter(1) : Maximum
RF Coil	1	98.1 M	5	98.1	L4	mV Meter(1) : Maximum
IFT	1	98.1 M	5	98.1	T31	mV Meter(1) : Maximum (STEREO MODE)
ARC	1	98.1 S	39	98.1	VR154	mV Meter(1) : Separation 5dB (STEREO MODE)

6.2 CD SECTION

1)Precautions

- This unit uses a single power supply (+5V) for the regulator. The signal reference potential, therefore, is connected to REFO(approx. 2.5V) instead of GND.

If REFO and GND are connected to each other by mistake during adjustments, not only will it be impossible to measure the potential correctly, but the servo will malfunction and a severe shock will be applied to the pick-up. To avoid this, take special note of the following.

Do not connect the negative probe of the measuring equipment to REFO and GND together. It is especially important not to connect the channel 1 negative probe of the oscilloscope to REFO with the channel 2 negative probe connected to GND.

Since the frame of the measuring instrument is usually at the same potential as the negative probe, change the frame of the measuring instrument to floating status.

If by accident REFO comes in contact with GND, immediately switch the regulator or power OFF.

- Always make sure the regulator is OFF when connecting and disconnecting the various filters and wiring required for measurements.
- Before proceeding to further adjustments and measurements after switching regulator ON, let the player run for about one minute to allow the circuits to stabilize.
- Since the protective systems in the unit's software are rendered inoperative in test mode, be very careful to avoid mechanical and /or electrical shocks to the system when making adjustment.
- Test mode starting procedure
Switch ACC, back-up ON while pressing the **4** and **6** keys together.

- Test mode cancellation
Switch ACC, back-up OFF.

- Disc detection during loading and eject operations is performed by means of a photo transistor in this unit. Consequently, if the inside of the unit is exposed to a strong light source when the outer casing is removed for repairs or adjustment, the following malfunctions may occur.

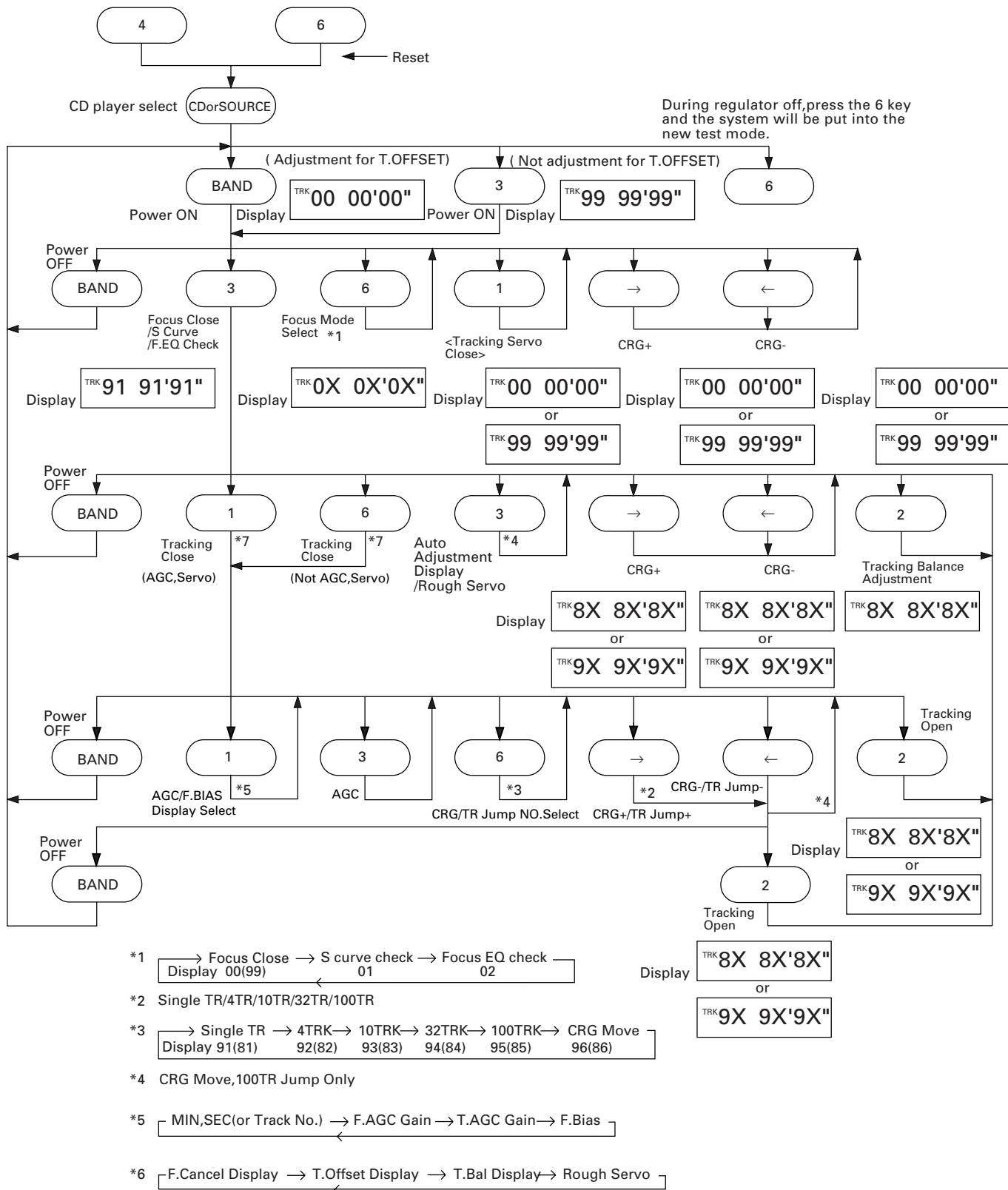
*During PLAY, even if the eject button is pressed, the disc will not be ejected and the unit will remain in the PLAY mode.

*The unit will not load a disc.

When the unit malfunctions this way, either re-position the light source, move the unit or cover the photo transistor.

- When loading and unloading discs during adjustment procedures, always wait for the disc to be properly clamped or ejected before pressing another key. Otherwise, there is a risk of the actuator being destroyed.
- Turn power off when pressing the button → or the button ← key for focus search in the test mode. (Or else lens may stick and the actuator may be damaged.)
- SINGLE/4TRK/10TRK/32TRK will continue to operate even after the key is released. Tracking is closed the moment C-MOVE is released.
- JUMP MODE resets to SINGLE as soon as power is switched OFF.

● Flow Chart



6.3 CHECKING THE GRATING AFTER CHANGING THE PICKUP UNIT

• Note :

Unlike previous CD mechanism modules the grating angle of the PU unit cannot be adjusted after the PU unit is changed. The PU unit in the CD mechanism module is adjusted on the production line to match the CD mechanism module and is thus the best adjusted PU unit for the CD mechanism module. Changing the PU unit is thus best considered as a last resort. However, if the PU unit must be changed, the grating should be checked using the procedure below.

• Purpose :

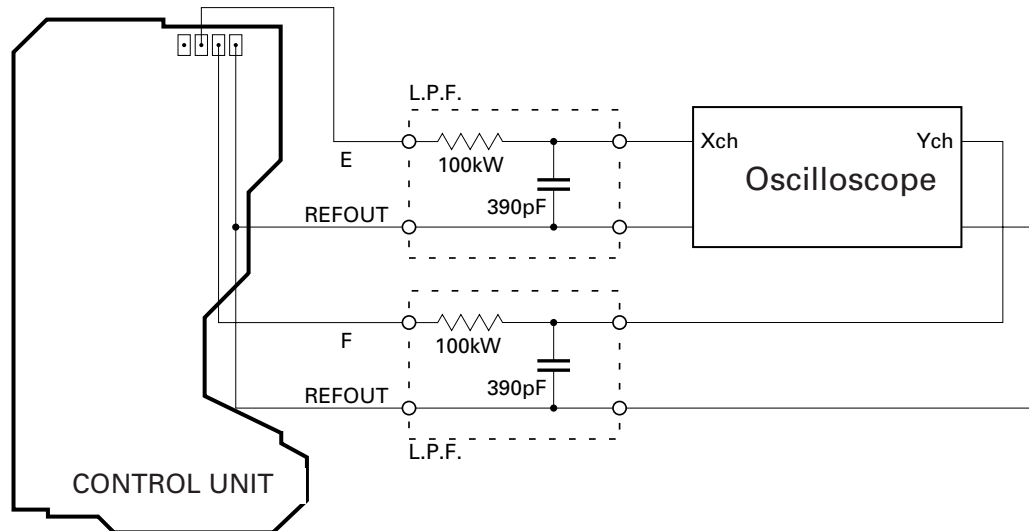
To check that the grating is within an acceptable range.

• Symptoms of Mal-adjustment :

If the grating is off by a large amount symptoms such as being unable to close tracking, being unable to perform track search operations, or track searching taking a long time, may appear.

• Method :

- | | |
|-----------------------|----------------------------|
| • Measuring Equipment | • Oscilloscope, Two L.P.F. |
| • Measuring Points | • E, F, REFOUT |
| • Disc | • ABEX TCD-784 |
| • Mode | • TEST MODE |



• Checking Procedure

1. In test mode, load the disc and switch the 5V regulator on.
2. Using the → and ← buttons, move the PU unit to the innermost track.
3. Press key 3 to close focus, the display should read "91". Press key 2 to implement the tracking balance adjustment the display should now read "81". Press key 3 4 times. The display will change, returning to "81" on the fourth press.
4. As shown in the diagram above, monitor the LPF outputs using the oscilloscope and check that the phase difference is within 75°. Refer to the photographs supplied to determine the phase angle.
5. If the phase difference is determined to be greater than 75° try changing the PU unit to see if there is any improvement. If, after trying this a number of times, the grating angle does not become less than 75° then the mechanism should be judged to be at fault.

• Note

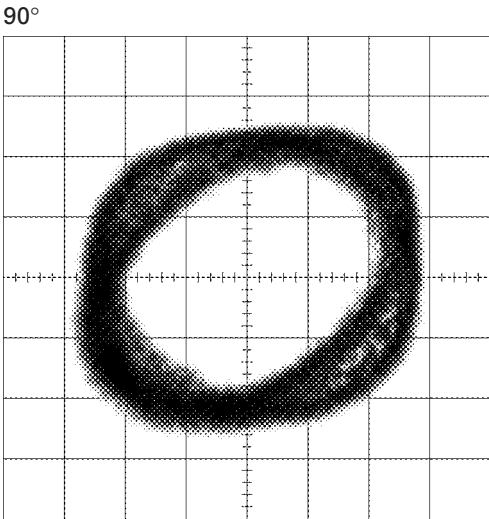
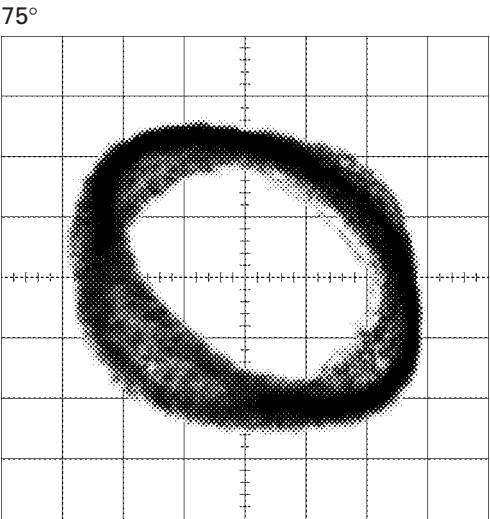
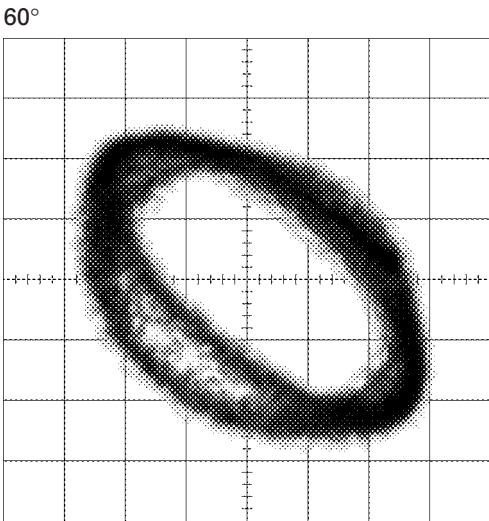
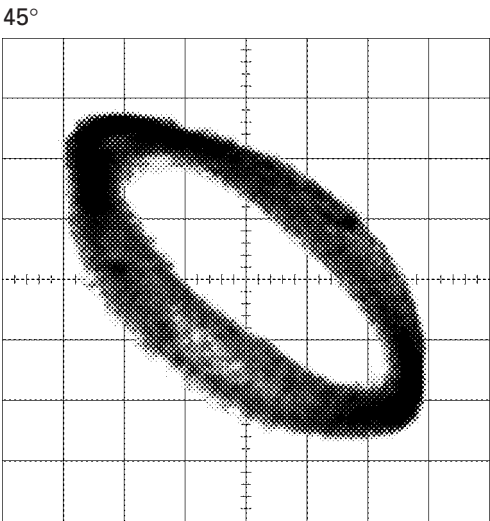
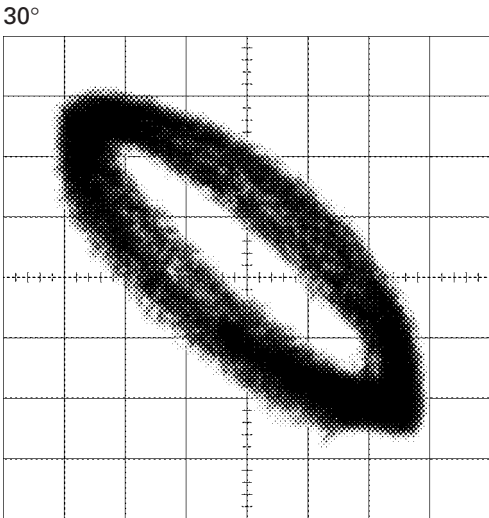
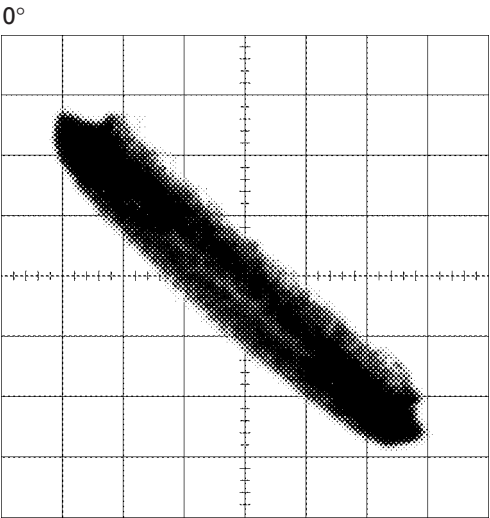
Because of eccentricity in the disc and a slight misalignment of the clamping center the grating waveform may be seen to "wobble" (the phase difference changes as the disc rotates). The angle specified above indicates the average angle.

• Hint

Reloading the disc changes the clamp position and may decrease the "wobble".

Grating waveform

Ech → Xch 20mV/div, AC
Fch → Ych 20mV/div, AC



7. GENERAL INFORMATION

7.1 PARTS

7.1.1 IC

● Pin Functions (UPD63702AGF)

Pin No.	Pin Name	I/O	Function and Operation
1	D.VDD		Supplies current of positive voltage to the logic circuits
2	RST	I	System reset input pin
3	AO	I	Microcomputer interface AO="L": STB active and set to address register AO="H": STB active and set to parameter
4	STB	I	Signal to latch serial data within the LSI
5	SCK	I	Clock input pin to input and output serial data
6	SO	O	Outputs serial data and status signal
7	SI	I	Serial data input pin
8	D.GND		Logic circuit GND
9	X.GND		Crystal oscillation circuit GND
10	XTAL	I	Crystal oscillator connection pin
11	XTAL	O	Crystal oscillator connection pin
12	X.VDD		Supplies current of positive voltage to the crystal oscillation circuit
13	DA.VDD		Supplies current of positive voltage to the D/A converter
14	R+	O	Right channel analog audio data output pin
15	R-	O	Right channel analog audio data output pin
16,17	DA.GND		D/A converter GND
18	L-	O	Left channel analog audio data output pin
19	L+	O	Left channel analog audio data output pin
20	DA.VDD		Supplies current of positive voltage to the D/A converter
21	D.VDD		Supplies current of positive voltage to logic circuit
22	FLAG	O	Flag output pin to indicate that audio data currently being output consists of noncorrectable data
23	WDCK	O	Pin to output double the frequency of LRCK
24	C16M	O	Pin to output the clock
25	EMPH	O	Output pin for the pre-emphasis data in the sub-Q code
26	DIN	I	Input pin for serial audio data
27	DOUT	O	Output pin for the serial audio data
28	SCKO	O	Output pin for the clock for the serial audio data
29	LRCK	O	Signals to distinguish the right and left channels of the audio data output from DOUT. Frequency is 44.1kHz at 50% duty at normal regeneration
30	TX	O	Output pin for the digital audio interface data
31	CTLV	I	Oscillation control pin for high-frequency clock generation VCO used for the digital PLL upon regeneration at fast speed of 2- or 4-fold
32	POUT	O	Output point for phase comparison
33	D.GND		GND for the logic circuit
34	VCO	I	Input pin for the inverter
35	VCO	O	Output pin for the inverter
36	D.VDD		Supplies current of positive voltage to the logic circuit
37	PLCK	O	Pin for monitoring the bit clock
38	LOCK	O	Indicates "H" when the synchronized pattern detection signal matches the frame counter output at the EFM recovery modulation, and "L" when they don't match
39	WFCK	O	Minute-cycle signal for the bit clock, the signal indicates the cycle of 1 frame (approx. 7.35kHz)
40	RFCK	O	Minute-cycle signal for the clock, the signal indicates cycle of 1 frame (approx. 7.35kHz)
41	D.GND		GND for the logic circuit
42,43	TEST0,1	I	Test pins
44,45	TM2, TM4	I	Pins for controlling regeneration at fast speed of 2- or 4-fold
46-49	T4-T7	I	Test pins
50,51	C1D1, C1D2	O	Output pin for indicating the C1 error correction results

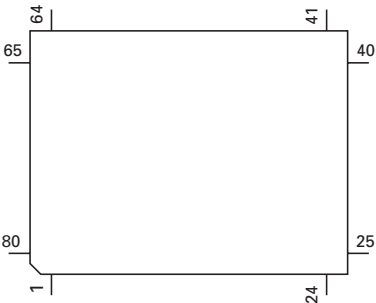
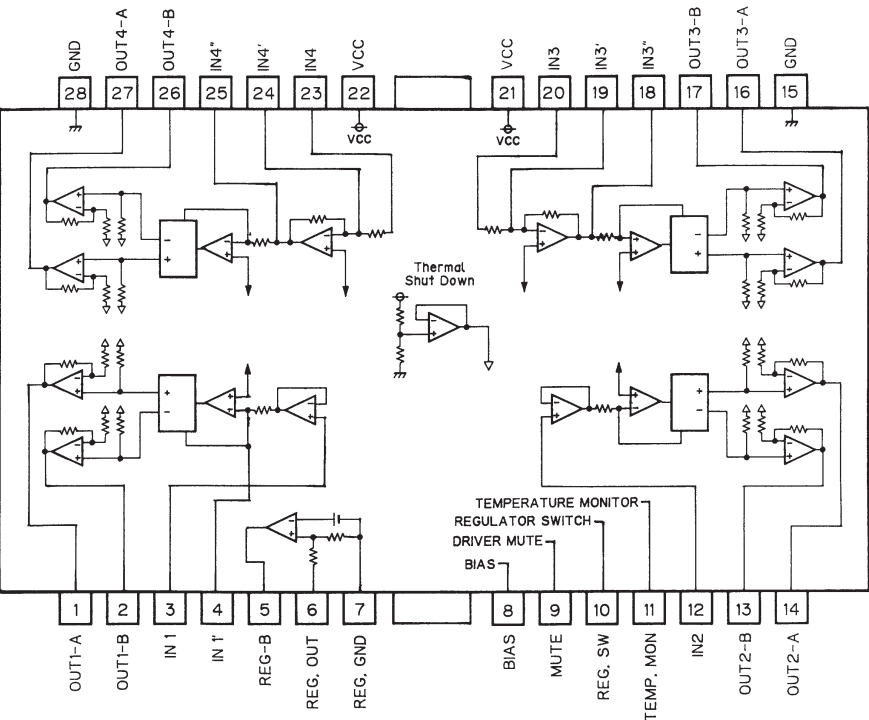
Pin No.	Pin Name	I/O	Function and Operation
52-54	C2D1-C2D3	O	Output pin for indicating the C2 error correction results
55	D.VDD		Supplies current of positive voltage to the logic circuit
56	SFSY	O	Outputs 1 word of the subcode. Generally, 1 cycle is approx 136 micro seconds
57	SBSY	O	The signal indicates the beginning of the subcode block. The SFSY signal is output at high level every 98 times
58	SBSO	O	Output pin for the subcode data
59	SBCK	I	Input pin for the clock signal for read-out of the subcode data
60	A.GND		GND for the analog circuit
61	MD	O	Output pin for the spindle drive
62	SD	O	Output pin for the sled drive
63	TD	O	Output pin for the tracking drive
64	FD	O	Output pin for the focus drive
65	FBAL	O	Output pin for the focus balance control
66	TBAL	O	Output pin for the tracking balance control
67	A.VDD		Supplies current of positive voltage to the analog circuit
68	TBC	I	Switches coefficient banks for the tracking filter
69	EFM	I	Input pin for the EFM signal
70	HOLD	I	Input pin for the hold control signal
71	RFOK	I	Input pin for the RFOK signal
72	MIRR	I	Input pin for the MIRR signal
73	A.GND		GND for the analog circuit
74	HOME	I	Home position detector input
75	VR1	I	The signal input through these pins is digitized to 8-bit by the A/D converter, which by operation of the assigned register, can be read into the microcomputer
76	FE	I	Inputs a focus-error signal from the RF amplifier
77	TE	I	Inputs a tracking-error signal from the RF amplifier
78	TEC	I	Input pin for the tracking comparator
79	REFOUT	O	Output point for midpoint potential for the A/D converter for the LSI portion
80	A.VDD		Supplies current of accurate voltage to the analog circuit

IC's marked by* are MOS type.

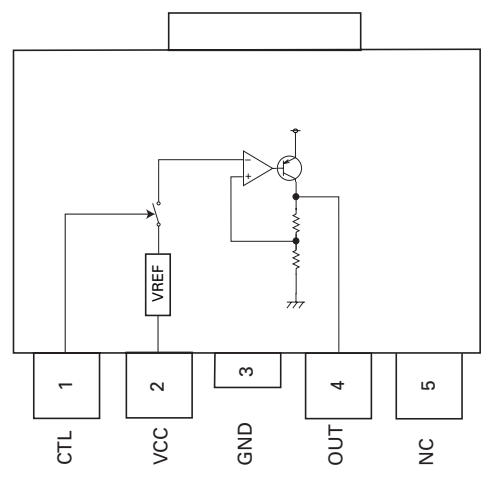
Be careful in handling them because they are very liable to be damaged by electrostatic induction.

*UPD63702AGF

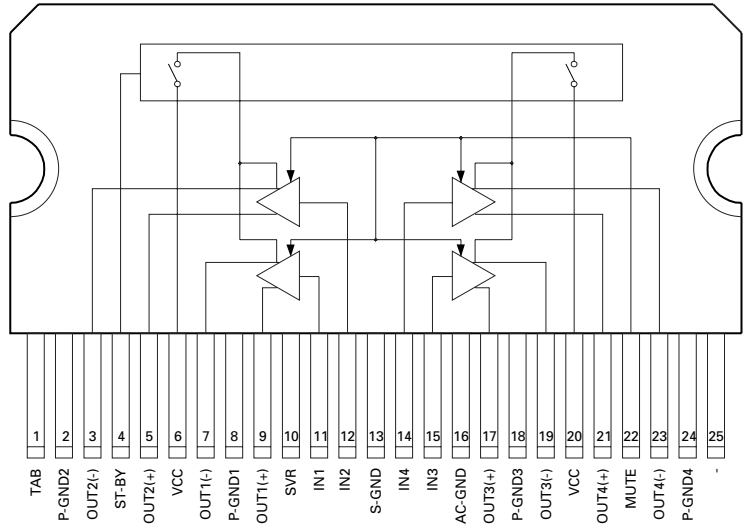
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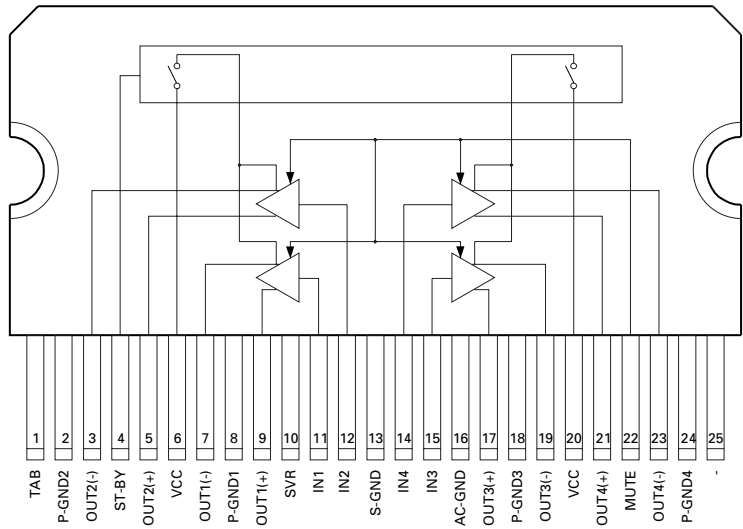
BA05SFP



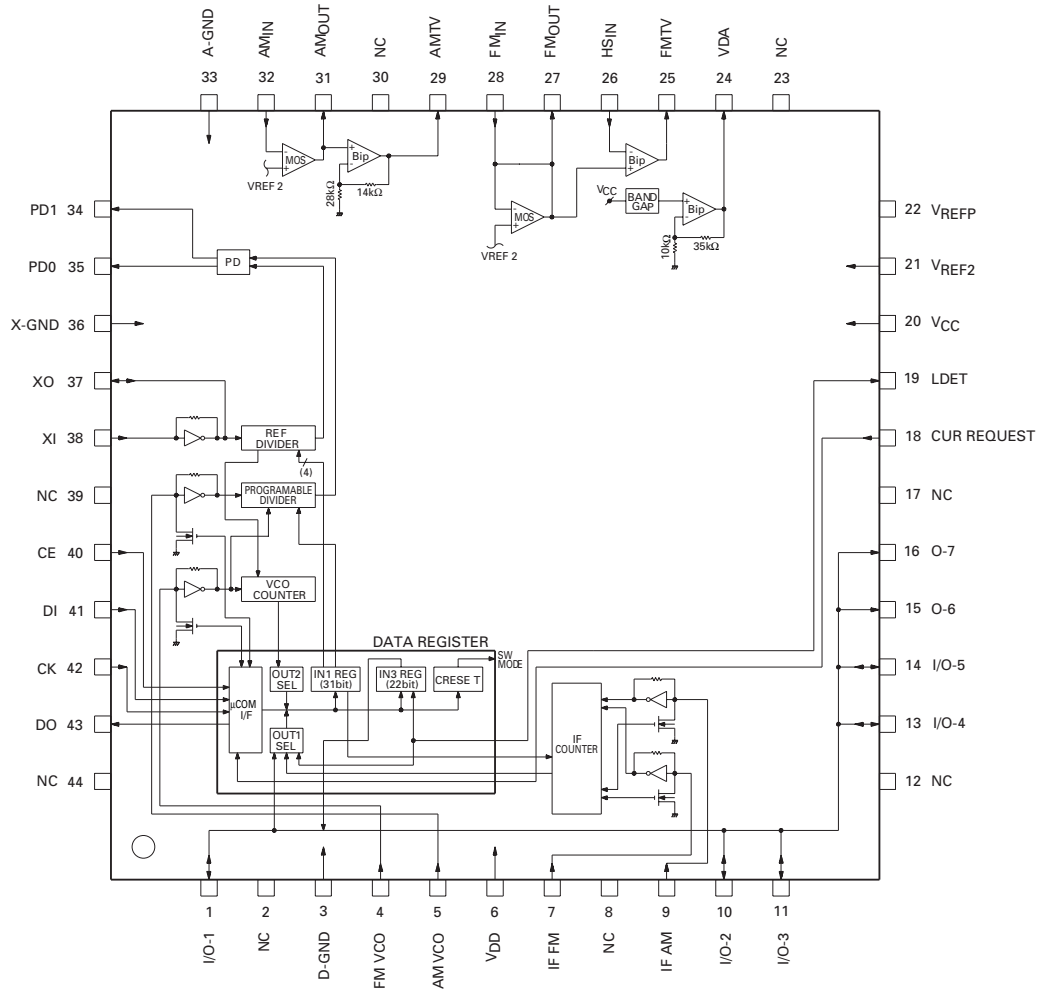
TDA7386



TDA7384



PM2006



● Pin Functions(PD4884A,PD4886A)

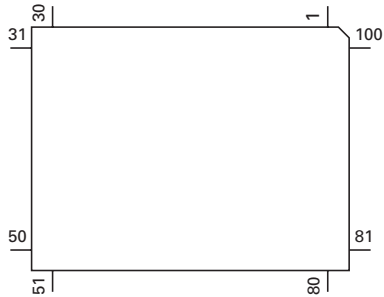
Pin No.	Pin Name	I/O	Function and Operation
1	SWVDD	O	Grille power supply control output
2	DSSENS	I	Grille detach sense input
3	NC		Not used
4	ISSENS	I	Illumination sense input
5	TESTIN	I	Test program mode input
6	IDRST	O	ID-LOGIC reset output
7	IDSEL	O	ID-LOGIC select output
8	IDCK	I/O	ID-LOGIC communication clock input/output
9	IDDI	I	ID LOGIC communication data input
10	IDDO	O	ID-LOGIC communication data output
11	RESET	I	Reset input
12	XT2		Open
13	XT1	I	Connect to VSS
14	VSS		GND
15	X2		Crystal oscillator connection pin
16	X1	I	Crystal oscillator connection pin (12.582912MHz)
17	REGC		Connect to VDD
18	REGOFF		Connect to VDD
19	VDD		Power supply
20	ILMPW	O	Illumination power supply control output
21	SYSPWR	O	System power control output
22	ADPW	O	A/D converter power output
23	LCDPW	O	LCD back light power supply control output

Pin No.	Pin Name	I/O	Function and Operation
24	IPPW	O	Power supply control output for IP BUS interface IC
25	ASENBO	O	Slave power supply control output
26	AMPW	O	AM power output
27	NC		Not used
28	MUTE	O	Mute output
29	DIM	O	Dimmer select output
30	FIEOUT	O	FIE ON/OFF control output
31,32	NC		Not used
33	VCK	O	Clock output for electronic volume
34	VST	O	Strobe pulse output for electronic volume
35	VDT	O	Data output for electronic volume
36,37	NC		Not used
38	SD	I	SD input
39	ST	I	FM stereo input
40	VSS		GND
41	VDD		Power supply
42-46	NC		Not used
47	DRELAY	O	External relay output
48	DRSENS	I	Door open/close sense input
49	DRSYS	O	Door system select output
50	DLED	O	Alarm LED output
51	DLSENS	I	Door lock sense input
52	STCUT	O	Ignition cut off output
53	MOSENS	I	Motion/window damage sensor input
54	CD5VON	O	CD +5V power supply control output
55	CONT	O	Servo driver power supply control output
56	VDCONT	O	VD control output
57	CDMUTE	O	CD mute output
58	CDEJET	O	Load motor eject control output
59	CDLOAD	O	Load motor loading control output
60	LOCK	I	Spindle lock detector input
61	FOK	I	FOK signal input
62	PCL	O	Clock adjustment output
63	MIRR	I	Mirror detector input
64	CLAMP	I	Disc clamp sense input
65	XSCK	O	LSI clock output
66	XSI	I	LSI data input
67	XSO	O	LSI data output
68	XAO	O	CD LSI data discernment control signal output
69	XRST	O	CD LSI reset output
70	XSTB	O	CD LSI strobe output
71,72	NC		Not used
73	TEST	I	Test terminal
74	SL	I	Signal level input
75-77	NC		Not used
78	EJTSNS	I	Disc EJECT position detect input
79	DSCSNS	I	Disc detect input
80	VDSSENS	I	VD over voltage sense input
81	TEMP	I	Temperature detector input
82,83	VDD		Power supply
84	GND		GND
85	RX	I	IP BUS data input
86	TX	O	IP BUS data output
87-90	NC		Not used
91	IDRDY	I	ID-LOGIC ready input
92	ASENS	I	ACC power sense input
93	BSENS	I	Back up power sense input
94	TUNPDI	I	PLL IC data input
95	KEYDT	I	Display data input

DEH-P645,P56,P545,46,445,41

Pin No.	Pin Name	I/O	Function and Operation
96	DPDT	O	Display data output
97	TUNPCK	O	PLL IC clock output
98	TUNPDO	O	PLL IC data output
99	TUNPCE	O	PLL IC chip enable output
100	PEE	O	Beep tone output

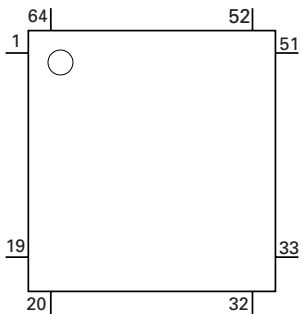
*PD4884A,PD4886A



● Pin Functions (PD6194A)

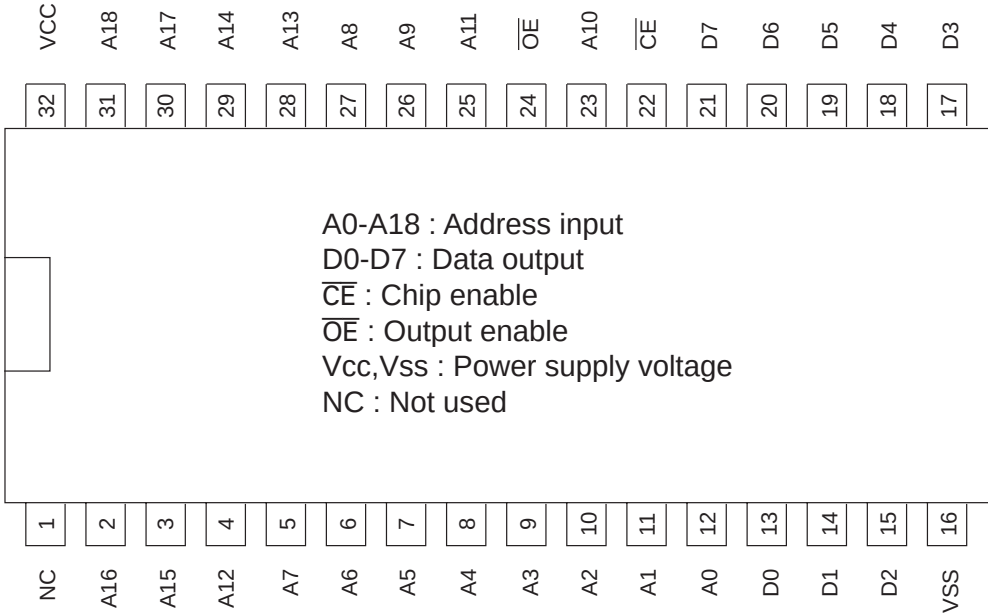
Pin No.	Pin Name	I/O	Format	Function and Operation
1-8	NC	O	N	Not used
9	OE	O	N	ROM output control
10	ROMEN	O	N	ROM enable
11	ADD17	O	N	ROM address #17
12	AVCC			5V power supply input
13	AVR			5V power supply input
14	AVSS			Connect to GND
15	IRSEL	I		Select input
16-19	NC	I		Not used
20	IRRST	I		Reset input
21,22	MOD0,1			Connect to GND
23	XIN			Oscillator input
24	XOUT			Oscillator output
25	VSS			Connect to GND
26-28	NC	O	C	Not used
29	IRRDY	O	C	Communications ready output
30-33	ADD16-13	O	C	Rom address #16-#13
34-41	ADD7-0	O	C	Rom address #7-#0
42-49	DT7-0	I		Rom data #7-#0 input
50	VSS			Connect to GND
51	TEST	I		Test program input
52	IRSCK	I		Communications clock input
53	IRDO	O	C	Communications data output
54	IRDI	I		Communications data input
55,56	NC	O	C	Not used
57	VCC			5V power supply input
58,59	NC	O	C	Not used
60-64	ADD8-12	O	N	ROM address #8-#12

*PD6194A



Format	Meaning
C	C MOS
N	N channel open drain

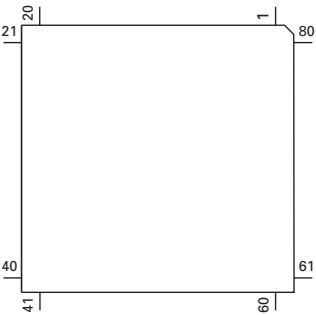
PD8033A



● Pin Functions (PD6197A)

Pin No.	Pin Name	I/O	Function and Operation
1	VSS		GND
2	X1		Crystal oscillator connection pin
3	X0		Crystal oscillator connection pin
4	NC		Not used
5,6	MOD1,0	I	Connect to GND
7	NC		Not used
8	KYDT	O	Display/key data output
9	DPDT	I	Display/key data input
10	REMIN	I	Remote control pulse input
11,12	NC		Not used
13-16	$\overline{KD4-KD1}$	I	Key data input
17-21	$\overline{KS6-KS2}$	O	Key strobe output
22	NC		Not used
23	VDD		VDD
24-73	SEG0-49	O	LCD segment output
74-77	COM3-0	O	LCD common output
78	VLCD	I	LCD voltage input
79,80	V2,V1		Power supply terminal

*PD6197A



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- ## COMMON

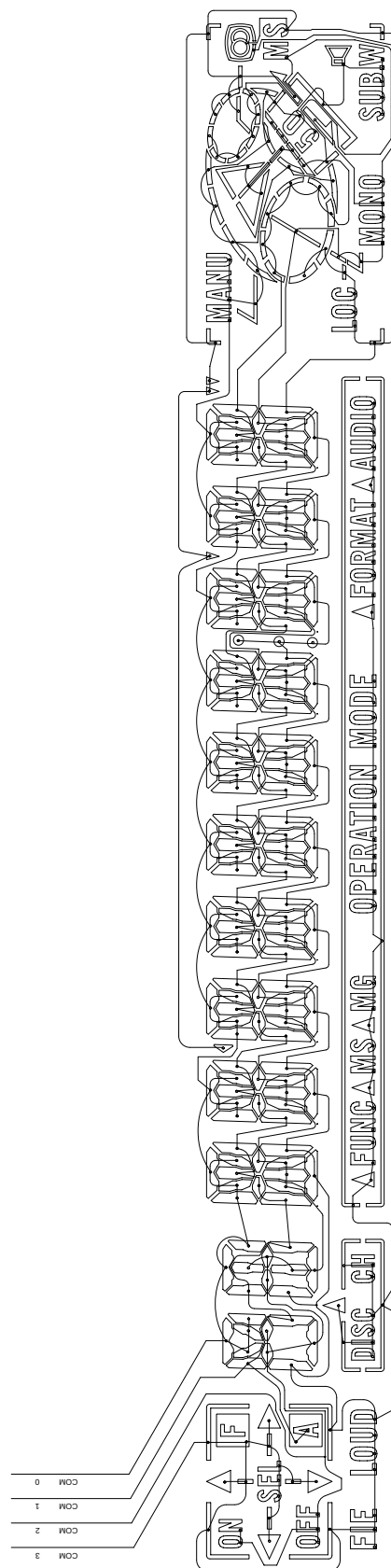


Fig. 25

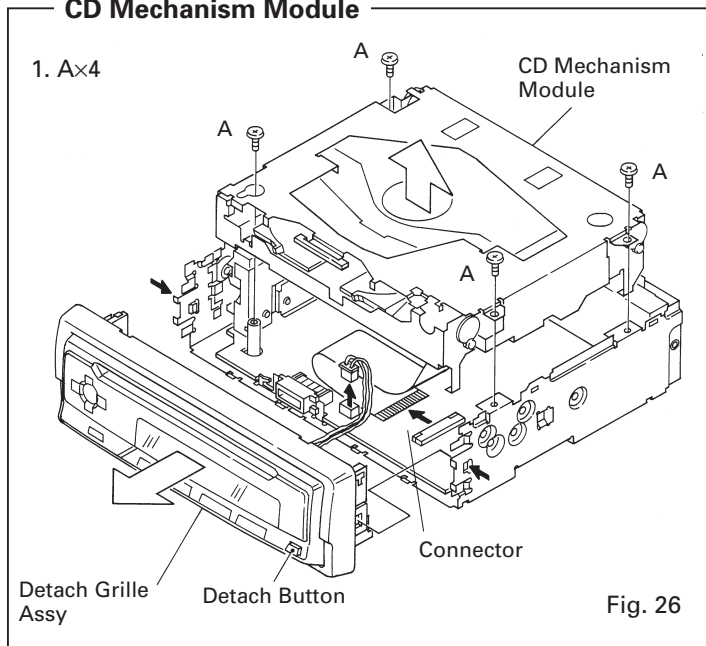
7.2 DIAGNOSIS

7.2.1 DISASSEMBLY

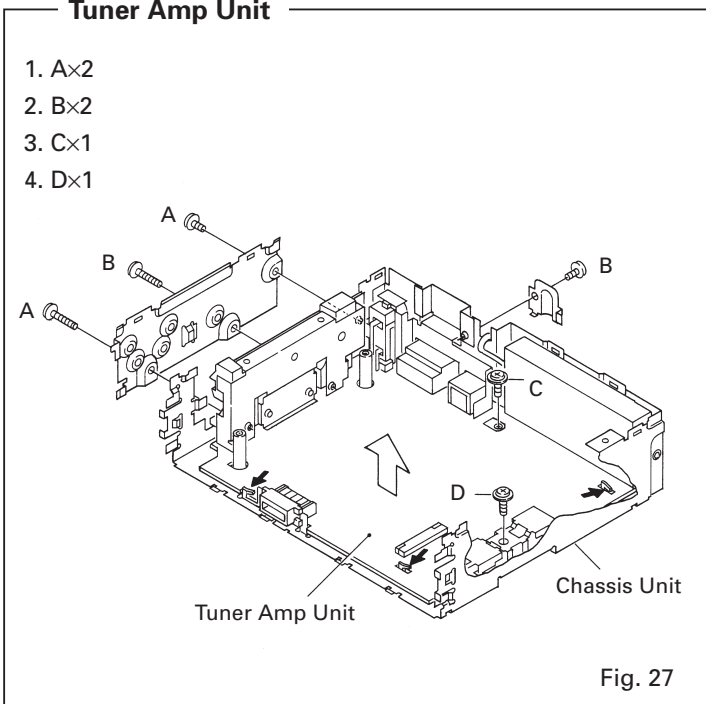
● Removing the Case(Not shown)

Removing the two screws.

● Removing the Detach Grille Assy and CD Mechanism Module



● Removing the Chassis Unit and Tuner Amp Unit



7.2.2 TEST MODE

● Error Number Indication

The system enters error mode to display the cause of error with a number when the system cannot operate CD or stops operation because of an error. The purpose of this measure is to reduce frequency of calls from users asking help for problems that are caused by incorrect operation by user, as well as to assist analysis and repair in servicing.

(1) Basic means of display

- An error code will be written on DMIN (minute area for display) and DSEC (second area for display) when CSMOD (CD mode area for system) is SERBORM.

The same data will be written on DMIN and DSEC.

DTNO shall be blank as before.

- Display examples of the head unit

Error codes will be displayed as shown below, depending on the capability of LCD. An error number will be displayed in the place of "xx."

- 8-digit display ERROR-XX
- 6-digit display ERR-XX or Err-XX
- 4-digit display E-XX

With OEM products, display of error codes shall be according to the specifications of the manufacturer.

(2) Error codes

Error code	Classification	Description	Cause / Detail
10	ELECTRIC	Carriage home failure	Carriage doesn't move to or from the innermost position →Home switch failed and/or carriage immobile
11	ELECTRIC	Focus failure	Focus failed →Defects, disc upside-down, severe vibration
12	ELECTRIC	SETUP failure Subcode failure	Spindle failed to lock or subcode unreadable →Spindle defective, defect, severe vibration
14	ELECTRIC	Mirror failure	Unrecorded CD-R The disc is upside-down, defects, vibration
17	ELECTRIC	Set up failure	AGC protect failed →Defects, disc upside-down, severe vibration
19	ELECTRIC	Improper T.BAL adjustment	Value of T.BAL adjustment is out of parameter.
30	ELECTRIC	Search time out	Failed to reach target address →Carriage / tracking defective and/or defects
A0	SYSTEM	Power failure	Power overvoltage or short circuit detected →Switching transistor defective and/or power abnormal

(4) Number of error codes

One hundred error codes (00 to 99) will be available.

(5) Remarks

- Error codes are not displayed for the mechanism alone (because CD is OFF when an mechanical error is generated).
- When the system cannot read TOC, it is not deemed as an error, and the system continues operation to a certain extent.
- Be sure to take measures as shown in the display examples whenever designing a new head unit.
- The first digit of an error code has a meaning as follows:
 - 1X : Error related to setup
 - 3X : Error related to the search function
 - AX : Other errors

● New Test Mode

When S-CD is specified as the source, basically the system plays as normal operation. After setup, the system displays the cause and time (absolute time) of an error if focus search is improper, spindle lock is removed, subcode cannot be read, or sound is skipped. During setup, the system displays the operation status of CD control software (internal RAM : CPOINT). The purpose of these displays and functions are to detect aging of servicing, as well as to improve efficiency of defect analysis.

(1) How to enter NEW TEST Mode

1. Reset the system by pressing keys (depending on the product) to enter the conventional Test mode.
2. Select S-CD as the source by pressing the source or CD key, then inserting a disc. Confirm that the regulator is OFF. Press the Switch Jump Mode key.
3. After that, the system will stay in the new Test mode, regardless of whether S-CD is OFF or ON.
To exit from the new Test mode, reset the system.
See the test mode flow chart Page 78.

(2) Relations of keys

keys	Test Mode		New Test Mode	
	Regulator OFF	Regulator ON	PLAY in progress	Error Protection
BAND	To Regulator ON	To Regulator OFF	—	Time / Err No.select
→	—	FWD-Kick	FF / TR+	—
←	—	REV-Kick	REV / TR-	—
1	—	Tracking Close	Scan	—
2	—	Tracking Open	RPT	—
3	—	Focus Close	RDM	—
—	—	Focus Open	—	—
—	—	Jump Off	—	—
6	To New Test Mode	Jump Mode select	Auto / Manu	T.No. / Time select

Operations, such as EJECT, CD ON/OFF are performed normal mode.

(3) Error Cause, Error Code

Code	Classification	Description	Cause / Details
40	ELECTRIC	Put out of focus	FOK=Low has continued for 100 msec →Damaged or soiled disc. vibration, or detective servo
41	ELECTRIC	Spindle unlock	LOCK=has continued for 100 msec →Damaged or soiled disc. vibration, or detective servo
42	ELECTRIC	Failed to read subcode	The system could not read subcode for 100 msec →Damaged or soiled disc. vibration, or detective servo
43	ELECTRIC	Sound skipped	The last-address-memory function activated →Damaged or soiled disc. vibration, or detective servo

There will be no mechanical error during aging. Error codes should be displayed in the same manner as in Normal mode.

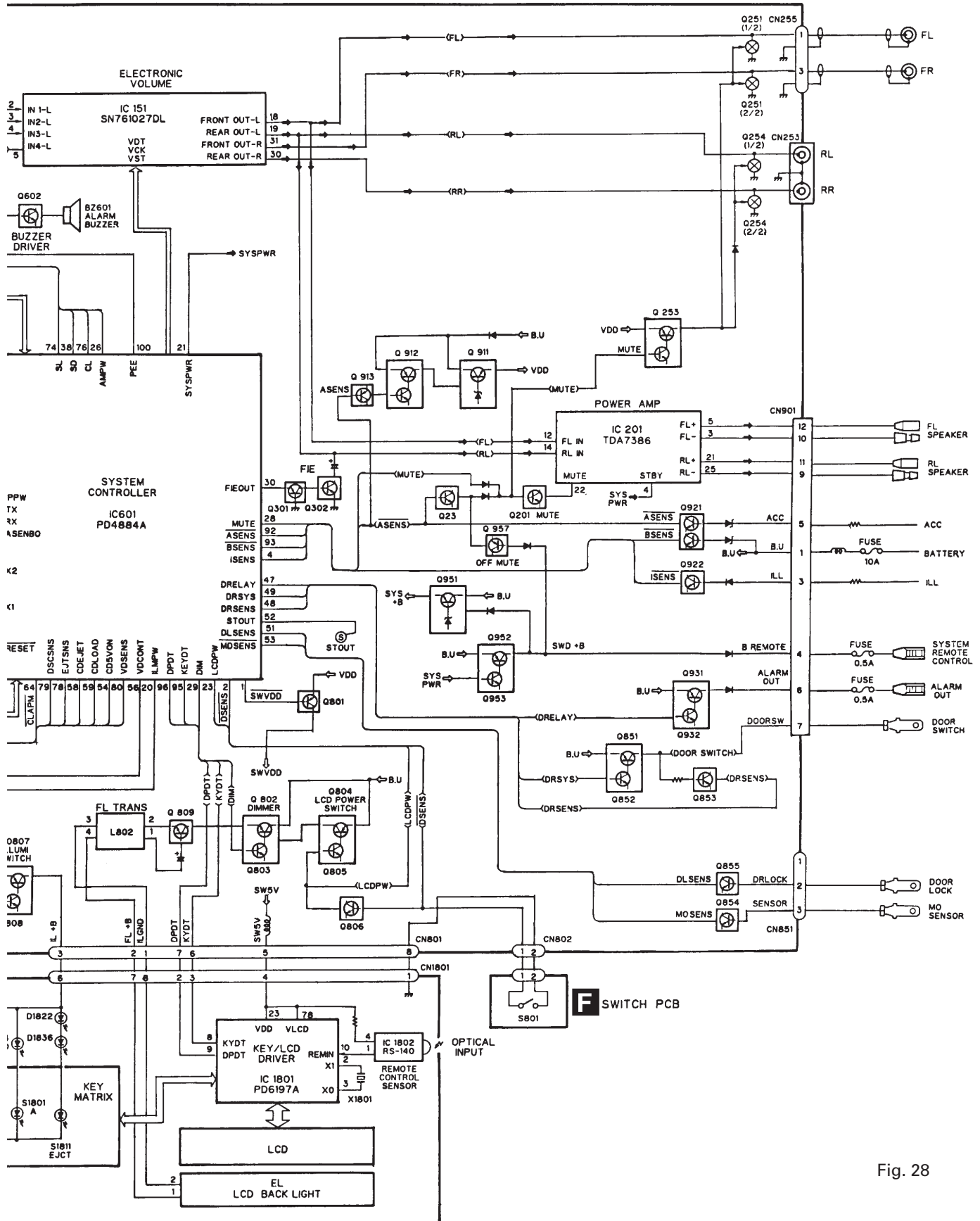


Fig. 28

8. OPERATIONS AND SPECIFICATIONS

8.1 OPERATIONS

● Connection Diagram

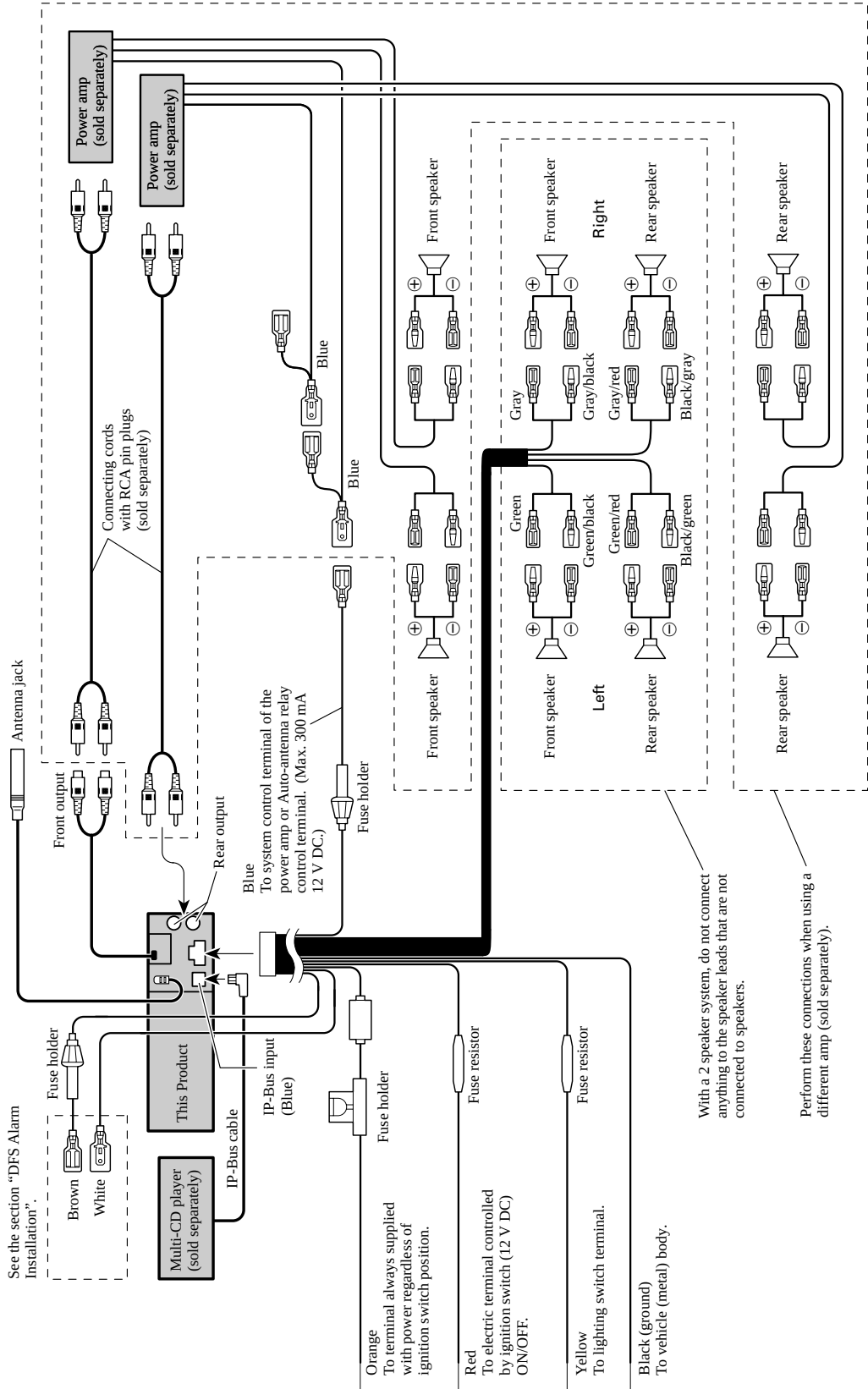
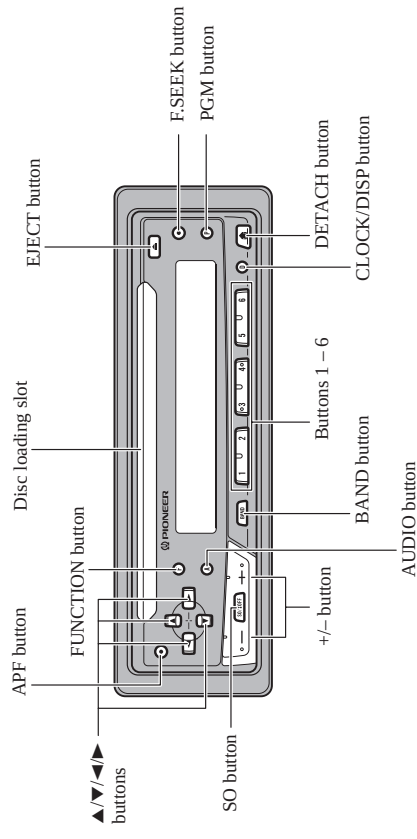


Fig. 29

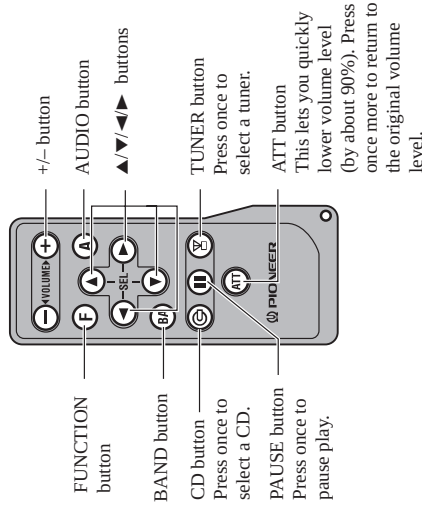
Key Finder

Head Unit



Remote Controller

A remote controller that enables remote operation of the head unit is supplied. Operation is the same as when using buttons on the head unit.



Remote Controller and Care

Using the Remote Controller

This product is equipped with a remote controller for convenient operation.

- Point the controller in the direction of the front panel to operate.

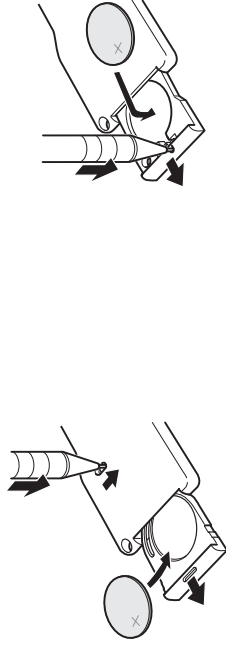
Precaution:

- Do not store the remote controller in high temperatures or direct sunlight.
- The controller may not function properly in direct sunlight.
- Do not let the remote controller fall onto the floor, where it may become jammed under the brake or accelerator pedal.

Battery

There are two types of remote controller. Refer to the illustration that applies to your supplied remote controller, and load the battery accordingly.

- Slide the tray out on the back of the remote controller and insert the battery with the (+) and (-) poles pointing in the proper direction.



Replacing the Lithium Battery:

- Use only lithium battery "CR2032", 3 V.

Precaution:

- Remove the battery if the remote controller is not used for a month or longer.
- If the event of battery leakage, wipe the remote controller completely clean and install a new battery.

⚠ WARNING:

- Keep the Lithium Battery out of reach of children. Should the Battery be swallowed, immediately consult a doctor.

⚠ CAUTION:

- Do not recharge, disassemble, heat or dispose of battery in fire.
- Use a CR2032 (3 V) Lithium Battery only. Never use other types of battery with this product.
- Do not handle the battery with metallic tools.
- Do not store the Lithium Battery with metallic materials.
- Dispose of the used Lithium Battery, in compliance with applicable laws and regulations.
- Always check carefully that you are loading battery with its (+) and (-) poles facing in the proper directions.

Basic Operation

Basic Operation of Tuner

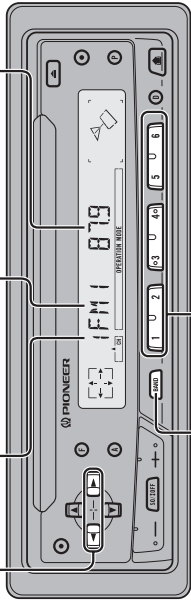
Manual and Seek Tuning

- You can select the tuning method by changing the length of time you press the ◀/▶ button.

Manual Tuning (step by step)	0.3 seconds or less
Seek Tuning (automatically)	0.3 – 2 seconds
Manual Tuning (continuously)	2 seconds or more

- Note:**
- “◻” stereo indicator lights when a stereo station is selected.

Preset Number indicator Band indicator Frequency indicator



Band

FM 1 → FM 2 → FM 3 → AM

Preset Tuning

- You can memorize broadcast stations in buttons 1 through 6 for easy, one-touch station recall.

Preset station recall	2 seconds or less
Broadcast station preset memory	2 seconds or more

Note:

- Up to 18 FM stations (6 in FM1, FM2 and FM3) and 6 AM stations can be stored in memory.
- You can also use the ▲ or ▼ buttons to recall broadcast stations memorized in buttons 1 through 6.

Basic Operation of Built-in CD Player

Disc Loading Slot

The built-in CD player plays one standard 12 cm or 8 cm (single) CD at a time. Do not use an adapter when playing 8 cm CD.

Eject

- Note:**
- The CD function can be turned ON/OFF with the disc remaining in this product. (See page 9.)
 - Discs left partially inserted after ejection may incur damage or fall out.

Elapsed play time indicator



Track Number indicator

Track Search and Fast forward/Reverse

- You can select between Track Search or Fast forward/Reverse by pressing the ◀/▶ button for a different length of time.

Track Search	0.5 seconds or less
Fast forward/Reverse	Continue pressing

Note:

- If a disc cannot be inserted fully or playback fails, make sure the recorded side is down. Push the EJECT button and check the disc for damage before reinserting it.
- If a CD is inserted with the recorded side up, it will be ejected automatically after a few moments.
- If the built-in CD player cannot operate properly, an error message (such as “ERROR-14”) appears on the display. Refer to “Built-in CD Player’s Error Message” on page 61.

Basic Operation of Multi-CD Player

This product can control one or more multi-CD players. (There are some types of Multi-CD players such as CDX-P630S which you cannot connect more than one.)

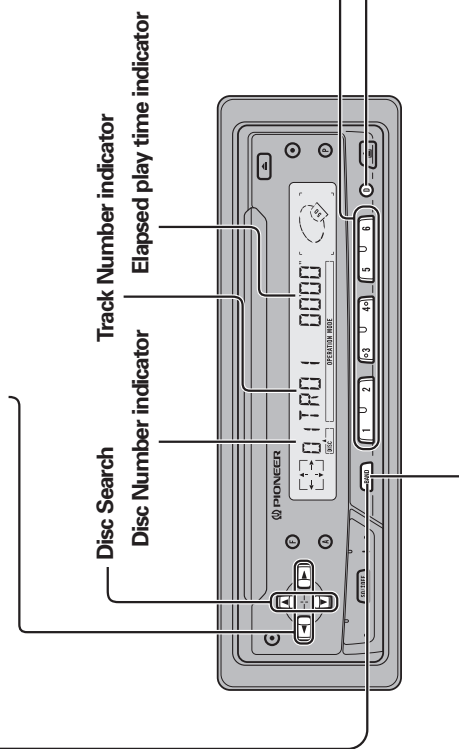
Switching the Multi-CD Player

Using a multiple connection adapter lets you connect up to three Multi-CD players.

M-CD 1 $\rightarrow$ M-CD 2 $\rightarrow$ M-CD 3 (Displayed for about 2 seconds.)	Track Search	0.5 seconds or less
	Fast forward/Reverse	Continue pressing

Track Search and Fast forward/Reverse

- You can select between Track Search or Fast forward/Reverse by pressing the ◀/▶ button for a different length of time.



Ejecting a Single Disc (for 50-Disc type only)

- Press the **BAND** button for 2 seconds or more, and you can eject the currently playing disc from the extra tray.
(Refer to the operation manual for the 50-Disc type Multi-CD player for details concerning disc ejection from the extra tray.)

Note:

- This function does not operate if a disc is already loaded in the extra tray.

Disc Number Search (for 6-Disc, 12-Disc types)

- You can select discs directly with the 1 to 6 buttons. Just press the number corresponding to the disc you want to listen to.

Note:

- When a 12-Disc Multi-CD Player is connected and you want to select disc 7 to 12, press the 1 to 6 buttons for 2 seconds or longer.

Disc Number Rough Search (for 50-Disc type only)

This handy function lets you select discs loaded in a 50-Disc Multi-CD Player using the 1 to 5 buttons. The 50 discs are divided into five blocks, with each of the 1 to 5 buttons assigned to a block.

- Select the desired block with the 1 to 5 buttons.

Note:

- After completing a rough search, use the **▲** and **▼** buttons to select a desired disc.

Switching between displays

- Each time you press the CLOCK/DISP button, the display switches between Disc Title and Group indications for the disc currently playing.

Note:

- Music Group display is a 50-Disc type Multi-CD player function. You cannot switch to this display with 6-Disc and 12-Disc type Multi-CD players.

Note:

- The multi-CD player may perform a preparatory operation, such as verifying the presence of a disc or reading disc information, when the power is turned ON or a new disc is selected for play-back. "READY" is displayed.
- When a magazine is loaded into a 50-Disc type Multi-CD Player, information on all the discs in the magazine is read.
- If you start playing a disc on a 50-Disc type Multi-CD Player before reading of information on all discs has been completed, reading of information stops part way through. This will prevent you from using a number of functions. (If you try and use these functions, "NOT READY" is displayed.)
- If this happens, reading of information begins again when you switch to a component other than the 50-Disc type Multi-CD Player.
- If the multi-CD player cannot operate properly, an error message such as "ERROR-14" is displayed. Refer to the multi-CD player owner's manual.
- If there are no discs in the multi-CD player magazine, "NO DISC" is displayed.
- "LOAD" will be displayed in the following cases:
 - * If the disc in the extra tray is selected.
 - * If the disc is moved from the extra tray to the magazine.
(Refer to the 50-Disc type multi-CD player owner's manual.)

Tuner Operation

Local Seek Tuning (LOCAL)

When Local mode is ON, you can only select broadcast stations providing strong reception.

1. Press the **FUNCTION** button and select the Local mode (**LOCAL**) in the Function Menu.

2. Switch the Local ON/OFF with the **▲/▼** buttons.



3. Select the desired Local Seek sensitivity with the **◀/▶** buttons.



FM : LOCAL 1 ↔ LOCAL 2 ↔ LOCAL 3 ↔ LOCAL 4
AM : LOCAL 1 ↔ LOCAL 2

Note:

- The LOCAL 4 setting allows reception of only the strongest stations, while lower settings let you receive progressively weaker stations.

Using ID LOGIC

This product features a tuner with ID LOGIC functions.

ID LOGIC is a database of information about AM and FM stations throughout the United States and in some parts of Canada and Mexico.

To enable you to take advantage of this information, this product features a wide range of functions.

This product can display Broadcast Station Call Signs, Format (Program type) and tuning to stations broadcasting a desired format.

Note:

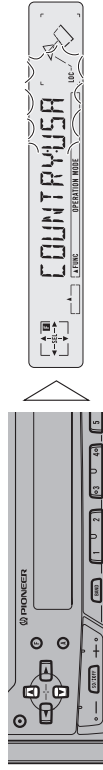
- Sections 1 to 5 explain basic operations, and Sections 6 to 9 deal with special functions.
- Before using ID LOGIC functions, you must first perform Location Set-up. (Refer to Section 1.)

1. Location Set-Up (LOCATION)

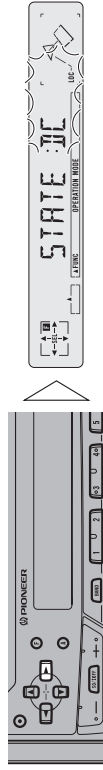
Set the name of the country, state and city (nearest city to the vehicle position) that the vehicle is positioned in.

1. During FM reception, select the Location Set-Up mode (LOCATION) in the Detailed Setting Menu. (Refer to page 18.)

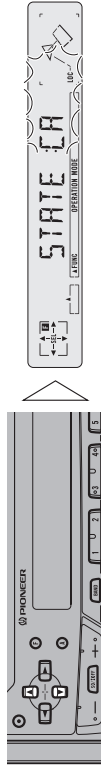
2. Select the country.



3. Advance to next selection.

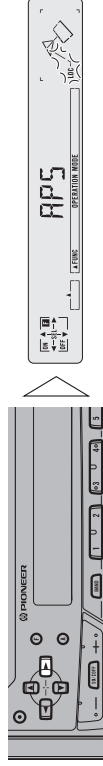


4. Select the state.

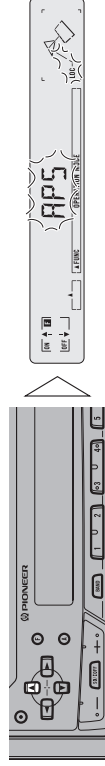


States are stored alphabetically.

5. Advance to next selection.



6. Using the APS (Auto Position Setting) function, automatically set the city the vehicle is located in.



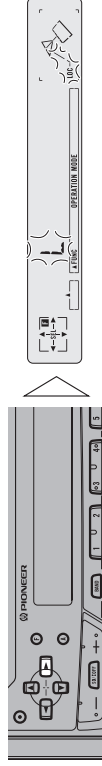
When you have completed APS, the city name flashes in the display.



When you have correctly set the city name, perform procedure 11 to cancel the Location Set-Up mode.

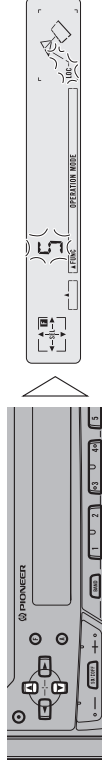
If you have not correctly set the city name, perform procedure 7 to set the name manually.

7. Manually set the city.



The initial letters of city names are displayed for city name selection.

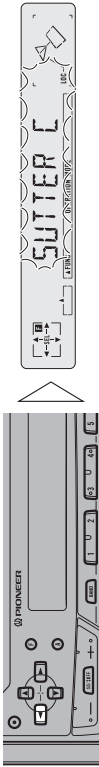
8. Select the initial of the city name.



Continued overleaf.

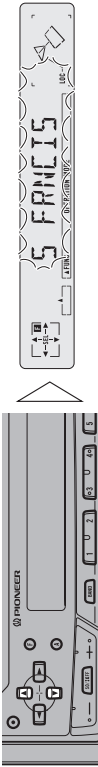
Using ID LOGIC

9. Fix your choice of the initial.



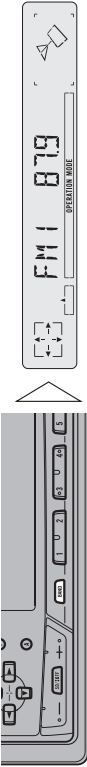
One city having your selected initial letter will be displayed.

10. Select the city.



Cities are stored alphabetically.

11. When the correct city has been selected, cancel the Location Set-Up mode.

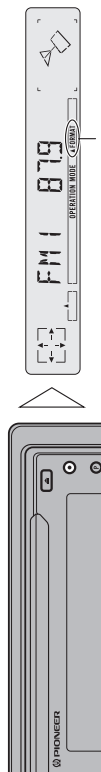


2. Format Tuning

This product allows you to look for a station by format (program type). Formats are divided into 8 types, such as ROCK, COUNTRY, NEWS and TALK.

Group Formats	Corresponding Formats
ROCK	TOP 40
	CLS ROCK
	ROCK
EASY LIS	SOFT
	ADLT HIT
	OLDIES
CLS/JAZZ	CLASSICL
	JAZZ
	NOSTALGA
	PUBLIC
COUNTRY	COUNTRY
R AND B	R AND B
	SOFT R/B
INFO	NEWS
RELIGION	REL MUSC
	REL TALK
MISC	LANGUAGE
	MISC

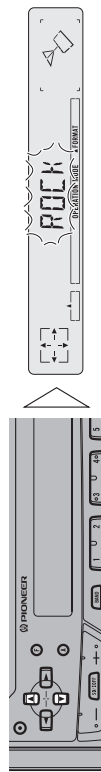
1. Select Format Seek mode.



"FORMAT"

To cancel Format Seek mode, repeat the preceding operation.

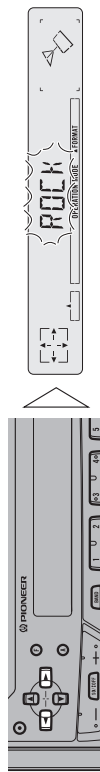
2. Select a group format.



A station broadcasting a program with a different group format from the format of the currently received broadcast station is selected.

Press the ▲ button to select stations with the next group format, and the ▼ button to select stations with the preceding group format.

3. Select a station.



A station broadcasting a program with the same group format as the currently received broadcast station is selected.

Press the ► button to select a station with a higher frequency and the ◀ button to select a station with a lower frequency.

Note:

- If you perform operation 3 during reception of a broadcast station with no format data, "NO FORMAT" is displayed. The tuner then returns to the prior frequency.
- "NO STATION" is displayed if no station with the selected group format can be received. The tuner then returns to the prior frequency.
- "NO DATA" will be displayed if there is no station data for the specified group format stored in the ID LOGIC database.
- If the set vehicle location is different from the current location, the selected group format and the format of the program may differ.
- If "MS" is displayed, refer to the "6. Multi-Station" section.
- You can also select and cancel the Format Seek mode when in the Function Menu SEEK SEL mode.

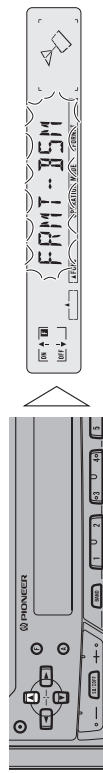
3. Format Best Stations Memory (FRMT-BSM)

This function automatically places receivable stations into presets 1 – 6, in order from strongest to weakest, for a selected group format.

Firstly, choose your desired group format as described in "2. Format Tuning".

1. Press the FUNCTION button and select the Format BSM mode (FRMT-BSM) in the Function Menu.

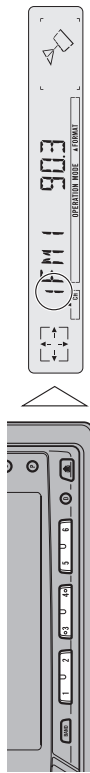
2. Start Format BSM.



To cancel Format BSM midway, press the ▼ button.

When Format BSM is completed, "FRMT-BSM" in the display stops flashing.

3. Select a preset station by pressing a button 1 – 6. (eg. Press button 1.)



Note:

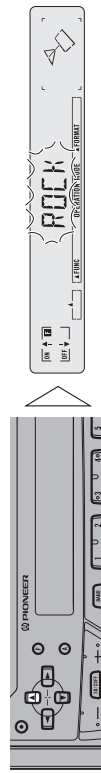
- In areas where there are not 6 or more stations covered by format tuning, the previously stored contents may be retained.
- If "MS" is displayed, refer to the "6. Multi-Station" section.

4. Format Scan (FRMT-SCAN)

This function allows you to scan receivable stations with the same format type as that of the present station that you are listening to.

1. Press the FUNCTION button and select the Format Scan mode (FRMT-SCAN) in the Function Menu.

2. Start Format Scan.



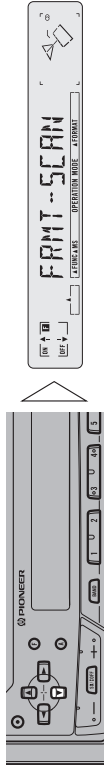
Stations with the same format are tuned one after another at 8 second intervals.

Continued overleaf.

Using ID LOGIC

3. Cancel the scan function and enable you to remain tuned to the present station.

If the Function Menu has been canceled automatically, select the Format Scan mode in the Function Menu again.



To cancel the Function Menu, press the BAND button.

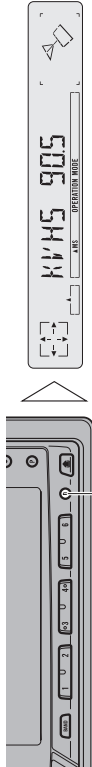
Note:

- If "MS" is displayed, refer to the "6. Multi-Station" section.

5. Display Modes

This function can be used to scroll through the various display modes for Band/Frequency, Call Sign/Frequency and Format.

- By pressing CLOCK/DISP button it is possible to scroll through the various displays.



Each press changes the Display ...

Note:

- You cannot switch to these displays if Call Sign and Format data for the station you are receiving are not stored in the tuner.
- If the set vehicle position is different from the current location, a different Format and Call Sign from those of the tuned-in station may be displayed.
- The program of some stations may differ from that indicated by their Format.

6. Multi-Station (MULTI ST)

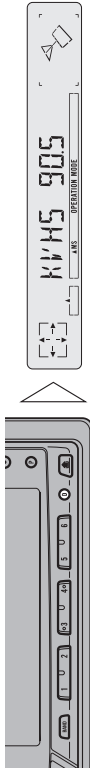
When "MS" is displayed, this indicates there are a number of stations having the same broadcasting frequency stored in the ID Logic database.

For example, if you have performed Format Tuning; you may be listening to a station with a different format type than which you chose.



"MS"

- Display Call Sign or Format indications, and confirm that Call Sign and Format agree with those of the program being broadcast.

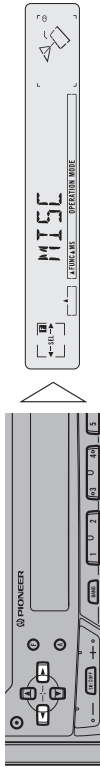


Note:

- If the format of the program differs from the format you want to listen to, perform Format Tuning, Format BSM or Format Scan again.
- If the Call Sign and Format do not agree with those of the program, display indications change.

Changing Multi-Station Format

1. Press the FUNCTION button and select the Multi-Station mode (MULTI ST) in the Function Menu.
2. Select Format.



Pressing the button switches the Format of the station broadcasting on the frequency currently being received. Select the appropriate Format for the broadcast.

To cancel the Function Menu, press the BAND button.

Using the Built-in CD Player

Scan Play (T-SCAN)

Scan Play plays the first 10 seconds or so of each track on a CD in succession.

1. Press the **FUNCTION** button and select the **Scan mode (T-SCAN)** in the **Function Menu**.



2. Switch the **Scan Play ON** with the **▲** button.

3. When you find the desired track, cancel scan play with the **▼** button.



If the **Function Menu** is automatically canceled at this time, select the **Scan mode** in the **Function Menu** once more.

Note:

- Scan Play is canceled automatically after all the tracks on a disc have been scanned.

Pause (PAUSE)

Let's you pause play of the track currently playing.

1. Press the **FUNCTION** button and select the **Pause mode (PAUSE)** in the **Function Menu**.



2. Switch the **Pause ON/OFF** with the **▲/▼** buttons.

Note:

- One-touch operation is possible with the remote controller.

Disc Title Input (TITLE IN)

You can use "TITLE IN" to input up to 48 disc titles for CDs in the built-in CD player. (Refer to "Disc Title Input" on page 45 under "Using Multi-CD Players".)

Note:

- If you connect a Multi-CD player, you can input disc titles for up to 100 discs.

Using Multi-CD Players

Repeat Modes (REPEAT)

There are four repeat modes (play range): One-track Repeat, Disc Repeat, Multi-CD player Repeat (the selected Multi-CD player) and All Repeat (all Multi-CD players). (Default mode is Multi-CD player Repeat.)

1. Press the **FUNCTION** button and select the **Repeat Selecting mode (REPEAT)** in the **Function Menu**.



2. Select the desired Repeat Mode with the **◀/▶** buttons.

Multi-CD player Repeat ("MCD" is displayed) → All Repeat ("ALL" is displayed) → One-track Repeat ("TRK" is displayed) → Disc Repeat ("DSC" is displayed)

Note:

- All Repeat is available only when two or more multi-CD players are installed.
- If you go beyond the play range of the selected repeat mode by performing Track Search, Fast forward/Reverse or selecting another disc or Multi-CD player, the mode changes to an applicable Repeat mode.

Random Play (RANDOM)

Tracks are played at random within the selected repeat mode play range as explained in "Repeat Modes" above.

1. Press the **FUNCTION** button and select the **Random mode (RANDOM)** in the **Function Menu**.



2. Switch the **Random Play ON/OFF** with the **▲/▼** buttons.

After selecting the desired repeat mode play range from those referred to in "Repeat Modes" above, switch Multi-CD Player Random Play ON.

Display	Play range
D-RDM	Disc Repeat
M-RDM	Multi-CD player Repeat
RDM	All Repeat

System	Compact disc audio system
Usable discs	Compact disc
Signal format	Sampling frequency: 44.1 kHz
	Number of quantization bits: 16; linear
Frequency characteristics	5 – 20,000 Hz (± 1 dB)
Signal-to-noise ratio	94 dB (1 kHz) (IHF-A network)
Dynamic range	90 dB (1 kHz)
Number of channels	2 (stereo)

Frequency range 530 – 1,710 kHz
Usable sensitivity 18 μV (S/N: 20 dB)
Selectivity 50 dB (± 10 kHz)